

HTC[®]

Hazari Tech Connect

Performance with Precision



INDEX

SR. NO.	MODEL NO.	PRODUCT DETAILS	PAGE NO.
1	MC-45	DIGITAL MOTOR CHECKER	6
2	TM-702	CONTACT / NON-CONTACT TACHOMETER	7
3	GD-801 / GD-801 PRO	4 IN 1 GAS DETECTOR	8
4	11S	SMART DIGITAL METER	9
5	15S	SMART DIGITAL METER	10
6	YX-360 TRE-B	MULTIMETER	11
7	DM-830L	DIGITAL MULTIMETER	12
8	DM-830L+	DIGITAL MULTIMETER	13
9	DM-23	DIGITAL MULTIMETER	14
10	DM-56	DIGITAL MULTIMETER	15
11	DM-81	DIGITAL MULTIMETER	16
12	DM 83T	DIGITAL MULTIMETER	17
13	DM 85T	DIGITAL MULTIMETER	18
14	DM-86	DIGITAL MULTIMETER	19
15	DM-87	DIGITAL MULTIMETER	20
16	DM-88	DIGITAL MULTIMETER	21
17	DM-91	DIGITAL MULTIMETER	22
18	DM-92	DIGITAL MULTIMETER	23
19	DM-97	DIGITAL MULTIMETER	24
20	DM-98	DIGITAL MULTIMETER	25
21	DM-8045R	BENCH TYPE DIGITAL MULTIMETER	26
22	DIM 1502	DIGITAL INSULATION MULTIMETER	27
23	DIM 1503	DIGITAL INSULATION MULTIMETER	28
24	20S	SMART CLAMP METER	29
25	21S	SMART CLAMP METER	30
26	CM-2000	600A AC DIGITAL CLAMP METER	31
27	CM-2007	800A AC DIGITAL CLAMP METER	32
28	CM-2016	800A AC/DC DIGITAL CLAMP METER	33
29	CM-2018	800A AC/DC DIGITAL CLAMP METER	34
30	CM-2030	1000A AC DIGITAL CLAMP METER	35
31	CM-2046	1000A AC/DC DIGITAL CLAMP METER	36
32	CM-2056	1000A AC/DC DIGITAL CLAMP METER	37
33	CM-2070 FT	1000A AC DIGITAL CLAMP METER	38
34	CL-2054	AC LEAKAGE CURRENT TESTER	39
35	CL-2055	AC/DC DIGITAL CLAMP METER	40
36	CM-2061PV	2000 AC/DC TRMS SOLAR PV CLAMP METER	41-42
37	CL-2053	MINI CLAMP METER	43
38	CM-207	1000A AC DIGITAL CLAMP METER	44
39	CM-207 FCT	1000A AC DIGITAL CLAMP METER	45
40	PC-170A	1000A AC WATT CLAMP METER	46
41	CM-1500	DIGITAL CAPACITANCE METER	47
42	CM-1501	DIGITAL CAPACITANCE METER	48
43	LCR-4070	LCR METER	49

INDEX

SR. NO.	MODEL NO.	PRODUCT DETAILS	PAGE NO.
44	LCR-4080Q	LCR-Q METER	50
45	EMF-523	ELECTRO MAGNETIC FIELD TESTER	51
46	EMF-54	MULTI-FIELD EMF METER	52
47	NR-63	NUCLEAR RADIATION DETECTOR	53
48	SE-09	SOCKET TESTER	54
49	HD-01	HEAT STROKE METER	55
50	TM-527	DIGITAL TESLA METER	56
51	LD-50	LASER DISTANCE METER	57
52	LD-70	LASER DISTANCE METER	58
53	LD-100	LASER DISTANCE METER	59
54	AVM-03	MINI ANEMOMETER	60
55	GD-03	MINI GAS LEAK DETECTOR	61
56	HD-303	MINI HYGROMETER	62
57	LX-10A	MINI LUX METER	63
58	MS-02	MINI MOISTURE METER	64
59	SL-13A	MINI SOUND LEVEL METER	65
60	CE-8201	EARTH LEAKAGE TESTER	66
61	DIT-621	INSULATION TESTER	67
62	DIT-90	DIGITAL INSULATION TESTER	68
63	DET-99	DIGITAL EARTH TESTER	69
64	CE-8200 / 8202 / 8203	EARTH LEAKAGE TESTER	70
65	6250-IN	DIGITAL INSULATION TESTER	71
66	6350-IN	DIGITAL INSULATION TESTER	72
67	7250-IN	DIGITAL INSULATION TESTER	73
68	HTC 8250	DIGITAL INSULATION RESISTANCE METER	74-75
69	HTC 8251	DIGITAL INSULATION RESISTANCE METER	76-77
70	HTC 8252	DIGITAL INSULATION RESISTANCE METER	78-79
71	EASY LOG	TEMPERATURE AND HUMIDITY DATA LOGGER	80
72	PDF LOGGER	TEMPERATURE AND HUMIDITY DATA LOGGER	81
73	MT4	INDUSTRIAL PYROMETER	82
74	MT-6	INDUSTRIAL PYROMETER	83
75	MT-8	INDUSTRIAL PYROMETER	84
76	MTX-1	INDUSTRIAL PYROMETER	85
77	MTX-2	INDUSTRIAL PYROMETER	86
78	MTX-4	INDUSTRIAL PYROMETER	87
79	IRX-63	INDUSTRIAL PYROMETER	88
80	IRX-64	INDUSTRIAL PYROMETER	89
81	IRX-65	INDUSTRIAL PYROMETER	90
82	IRX-66	INDUSTRIAL PYROMETER	91
83	IRX-67	INDUSTRIAL PYROMETER	92
84	IRX-68	INDUSTRIAL PYROMETER	93
85	IRX-69	INDUSTRIAL PYROMETER	94
86	MO-5000	DIGITAL MILLI-OHM METER	95

INDEX

SR. NO.	MODEL NO.	PRODUCT DETAILS	PAGE NO.
87	MO-5004	DIGITAL MICRO-OHM METER	96
88	MO-5252	DC RESISTANCE TESTER	97
89	TT-825	TRANSISTOR TESTER	98
90	AVM-06	ANEMOMETER	99
91	AVM-07	ANEMOMETER	100
92	AVM-08	HOT WIRE ANEMOMETER	101
93	VB-8205	VIBRATION METER	102
94	PVB-805	VIBRATION METER	103
95	AC-II	AC VOLTAGE DETECTOR	104
96	AC-IV	AC VOLTAGE DETECTOR	105
97	AC-VI	AC VOLTAGE DETECTOR	106
98	HP-500	NON-CONTACT HIGH VOLTAGE DETECTOR	107
99	PSD-II	DETECTOR	108
100	SMD TESTER	DETECTOR	109
101	ST-852	DIGITAL PHASE INDICATOR	110
102	SL-1350	SOUND LEVEL METER	111
103	SL-1352	SOUND LEVEL METER	112
104	HD-304	TEMPERATURE & HUMIDITY METER	113
105	HT-306	THERMOMETER & HUMIDITY METER	114
106	DSO-1008S	SMART OSCILLOSCOPE GRAPH MULTIMETER	115
107	DSO-10100S	DIGITAL STORAGE OSCILLOSCOPE	116
108	DSO-20100S	DIGITAL STORAGE OSCILLOSCOPE	117
109	PDO-5050S	DIGITAL STORAGE OSCILLOSCOPE	118
110	PDO-5070S	DIGITAL STORAGE OSCILLOSCOPE	119
111	PDO-50200S	DIGITAL STORAGE OSCILLOSCOPE	120
112	PM-6102	DIGITAL MANOMETER	121
113	PM-6105	DIGITAL MANOMETER	122
114	PM-6115	DIGITAL MANOMETER	123
115	PM-6130	DIGITAL MANOMETER	124
116	PM-6175	DIGITAL MANOMETER	125
117	PM-6202 / 6205	DIGITAL MANOMETER	126
118	LX-101A	LUX METER	127
119	LX-102A	LUX METER	128
120	LX-103	DIGITAL LUX METER	129
121	LX-104	DATA LOGGER LUX METER	130
122	LX-107	SOLAR POWER METER	131
123	LX-108L	DIGITAL LED LUX METER	132
124	FG-5KG	DIGITAL FORCE GAUGE	133
125	FG-20KG	DIGITAL FORCE GAUGE	134
126	FG-100KG	DIGITAL FORCE GAUGE	135
127	103-CTH	THERMO HYGROMETER	136
128	288-ATH	THERMO HYGROMETER	137
129	288-CTH	THERMO HYGROMETER	138

DIGITAL MOTOR CHECKER

MC-45



- DC Resistance
- Data Hold
- Insulation Resistance
- Back light
- Inductance
- Alarm
- Over Range Display
- Low Battery Indication
- Relative Value Measurement
- High Accurate
- Auto Power Off
- CAT III 600V

FEATURES :

- 3½ DIGITS
- 1,999 COUNT
- INSULATION RESISTANCE MEASUREMENT
- IDENTIFY INTER TERM SHORTS
- IDENTIFY OPEN AND SHORT CIRCUITS / LOOSE CONNECTIONS IN WINDING COIL
- DETECT ROTOR BAR PROBLEMS WITHOUT DISMOUNTING THE ROTOR
- INDUCTANCE OF THE WINDING WITH RESPECT TO DIFFERENT POSITIONS FOR ROTOR FOR DETECTING BLOW HOLES OR CRACKES IN THE ROTOR BARS.
- DATA HOLD
- AUTO RANGE SWITCHING
- HIGHLY ACCURATE, EASY TO USE
- MILLIOHM RESISTANCE
- USED IN LABORATORIES, FACTORIES, RADIO INDUSTRY, ELECTRICAL VEHICLE REPAIR, ELECTRONIC MANUFACTURING AND MAINTENANCE, POWER INSTALLATION

INSULATION RESISTANCE MEASUREMENT (MΩ)

RANGE		RESOLUTION	ACCURACY	NOTE
500V	200MΩ	0.1MΩ	± (4%+2)	Output Voltage is 500V (Testing Range:1MΩ - 199.9MΩ)
1000V	2000MΩ	1MΩ		Output Voltage is 1000V (Testing Range:1MΩ - 1999MΩ)

- Auto Power Off after 15 Mints.
- Sampling Rate:
Approximately 3 times / second

WARNING: This range has high voltage output, be careful of electric shock!

DC RESISTANCE MEASUREMENT (Ω)

RANGE	RESOLUTION	ACCURACY	NOTE
200MΩ	0.1MΩ	± (3%+20)	Open circuit voltage about 5.0V
2Ω	0.001Ω	± (2%+20)	
20Ω	0.01Ω	± (1%+10)	
200Ω	0.1Ω		

POWER : AA 1.5V X 6

Dimension	: H200 x W92 x D50 mm
Weight	: Approx. 480 Gms.
Accessories	: Test Lead, Shockproof Cover, Carry Case, 1 set of Crocodile Clips Manual & Battery.

WARNING: Before testing, short-circuit the test leads. If the display doesn't return to zero and shows residual readings, press the "REL" button to clear it directly before measuring.

INDUCTANCE MEASUREMENT (L)

RANGE	RESOLUTION	ACCURACY	NOTE
2.000mH	0.001mH	± (1.5%+5)	Open circuit voltage about 5.0V
20.00mH	0.01mH		
200.0mH	0.1mH		
2.000H	0.001H		
20.00H	0.01H		
100.0H	0.1H		

TEST FREQUENCY: Approx. 1kHz



Contact Rotation / Linear Speed Measurement



Wide Measurement Range
Non Contact 10-99999 RPM
Contact 1.0-19999 RPM



MAX / MIN / AVG Function



USB Interface



5 digit, Large Screen LCD



High / Low Threshold Alarm



Low Battery Indication



Auto Power Off

FEATURES :

- WIDE MEASUREMENT RANGE AND HIGH RESOLUTION
- ACCURATE SPEED MEASUREMENT
- LARGE SCREEN LCD DISPLAY
- AUTOMATICALLY RECORDS THE MAXIMUM, MINIMUM, AVERAGE AND LAST MEASURED VALUES
- LOW BATTERY INDICATOR
- HIGH AND LOW THRESHOLD ALARMS
- EASY AND COMFORTABLE TO USE
- PHOTOELECTRIC SPEED MEASUREMENT
- CONTACT ROTATION SPEED MEASUREMENT
- CONTACT LINEAR SPEED MEASUREMENT
- USB INTERFACE

- **Auto Power Off** : After 15 Mints.
- **Power Consumption** : Less than 80mA

MEASURING RANGES		RESOLUTION	ACCURACY
NON-CONTACT	10-99999 rpm	0.1rpm(10-9999.9 rpm) 1 rpm (above 10000 rpm)	± (0.05% +1)
CONTACT	1.0-19999 rpm	0.1rpm(1-9999.9 rpm) 1 rpm (above 10000 rpm)	
DISPLAY		5 DIGIT 40 MM LCD	
EFFECTIVE DISTANCE		50MM -500MM	
RANGE SELECTION		AUTOMATIC	

POWER : 700 mAH LITHIUM BATTERY

Dimension	: H184 x W60 x D33 mm
Weight	: Approx. 140 Gms.
Accessories	: Reflective Tape 600mm Long, Contact Linear Speed Accessories 1 Pc, Contact Speed Accessories 3 PCs,

4 IN 1 GAS DETECTOR

GD-801 / GD-801 PRO



- High Precision Sensor
- 400 Data Storage
- Built in Air Pump
- 2.4" IPS Colour Screen
- Back light
- Real Time Analysis
- Alarm
- Combustible
- Clock
- Oxygen
- Compact
- IP 54
- Carbon Monoxide
- Battery Power
- Portable
- Hydrogen Sulfide
- Voice Broadcast
- Auto Power Off

FEATURES :

- PORTABLE VOICE TYPE 4-IN-1 GAS (CO / H₂S / Ex / O₂) MONITOR
- PREDICTS THE GAS CONCENTRATION AND ALARM TO ENSURE LIFE SAFETY
- HIGH STRENGTH ENGINEERING PLASTIC & SENSITIVITY GAS SENSOR
- 2.4" IPS COLOUR SCREEN
- BUILT-IN-LI-ION 3000mAh
- MONITORING COMBUSTIBLE GAS CONCENTRATION
- SOUND / LIGHT / VIBRATION ALARM
- VOICE BROADCAST
- PUMP DETECTION, BUILT-IN AIR PUMP
- CONNECTED THE EXTERNAL GAS PIPE AND MULTI-FUNCTION DETECTION HANDLE
- 400 SETS OF DATA STORAGE
- REAL-TIME DATA GRAPH ANALYSIS
- IP54 (DUSTPROOF, WATERPROOF & EXPLOSION PROOF)

SPECIFICATIONS :

CONVENTIONAL GAS DETECTION RANGE				
GAS TYPE	RANGE	LOW ALARM VALUE	MAX ALARM VALUE	RESOLUTION
Carbon Monoxide (CO)	0~1000 µmol/mol	50 µmol/mol	150 µmol/mol	1 µmol/mol
Hydrogen Sulfide (H ₂ S)	0~100 µmol/mol	10 µmol/mol	35 µmol/mol	1 µmol/mol
Combustible Gas (Ex)	0~100% LEL	20% LEL	50% LEL	1% LEL
Oxygen (O ₂)	0~30% VOL	19.5% VOL	23.5% VOL	0.1% VOL

POWER : 3.8V 3000mAh Li-ion

Dimension	: H174 x W77 x D55 mm
Weight	: 318 g
Accessories	: Meter, Type-C Cable, Colour Box, User Manual, Cloth Bag, Hose
Extra in 801 Pro	: PP Box & Multi function detection handle

OTHER SPECIFICATION

SENSOR PRINCIPAL	Electrochemical/Catalytic Combustion
SENSOR LIFE	1 Year
SAMPLING MATHOD	Air Pump
READING ERROR	±5% FS
RESPONSE TIME	<30s
TIME DISPLAY	Yes
MEMORY	400 Units

STARTUP PREHEAT	50s
ALARM	Sound/Light/Vibration
AUTO OFF	5 minutes (Changeable)
AUTO BACKLIGHT OFF	30s
EXPLOSION-PROOF GRADE	Ex ib IIB T3 Gb
IP GRADE	IP 54
CHARGING SPECIFICATION	Type-C, DC5V 1A



- V**
AC / DC Voltage
- Back light**
- Torch**
- AUTO**
Smart DM
- Low Battery Indication**
- NCV**
NCV
- Hz**
Frequency
- Ω**
Resistance
- Continuity**
- OL**
Over Range Display



FEATURES :

- 3½ DIGITS
- 3,999 COUNTS
- TRUE RMS
- NCV
- LIVE WIRE DETECTION
- AUTO POWER OFF (APO)
- SMART DIGITAL METER (AUTO MODE)

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
4V	0.001 V	±(0.5% +3) Impedance Approx 10MΩ
40V	0.01 V	
400V	0.1 V	
600V	1 V	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
4 Hz	0.001 Hz	±(1.0 + 3)
40 Hz	0.01 Hz	
400 Hz	0.1 Hz	
4 KHz	0.001 KHz	
40 KHz	0.01 KHz	
200 KHz	0.1 KHz	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±(1.0 + 5)
4KΩ	0.001KΩ	
40KΩ	0.01KΩ	
400KΩ	0.1KΩ	
4MΩ	0.001MΩ	
40MΩ	0.01MΩ	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
4V	0.001 V	±(0.8%+3) Impedance Approx 10MΩ Frequency Response 40 Hz±1 KHz:TRMS
40V	0.01 V	
400V	0.1 V	
600V	1 V	

CONTINUTY

	<Approx 50Ω Buzzer will sound and indicator light will be on
--	--

POWER : AAA 1.5V x 2

Dimension	: H127 x W66 x D19 mm
Weight	: Approx 107g.
Accessories	: Test leads, User Manual & Battery
Qty	: 50 Pcs. in a Box



- AC / DC Current
- AC / DC Voltage
- Back light
- Torch
- Temp
- Low Battery Indication
- Over Range Display
- NCV
- Frequency
- Resistance
- Capacitance
- Diode
- Continuity
- CAT III 600V

FEATURES :

- 3³/₄ DIGITS
- 5,999 COUNTS
- COLOUR DISPLAY
- TRUE RMS
- DATA HOLD
- DUTY CYCLE
- AUTO POWER OFF (APO)
- LIVE WIRE DETECTION
- FUSE BURN INDICATION
- INPUT JACK INDICATION



AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
6V	0.001 V	±0.8% of rdg ±3 digits
60V	0.01 V	
600V	1 V	

Impedance : Approx 10M
Frequency Response : 40Hz~1kHz, TRMS

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1 mV	±0.5% ±3 Impedance approx 10MΩ
6V	0.001 V	
60V	0.01 V	
600V	1 V	

AC / DC CURRENT

RANGE	RESOLUTION	ACCURACY
600mA	0.1 mA	±1.2% of rdg±3 digits
6A	0.001 A	
10A	0.01 A	

TEMPERATURE

RANGE	ACCURACY	
'C'	-40°C~0°C	±3°C
	0°C~1000°C	±2.0% OR ±2°C
'F'	-40°F~32°F	±6°F
	32°F~1832°F	±2.0% OR ±4°F

Resolution : 1°C / 1°F
Note : Use K-type thermocouple probe.

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
6nF	0.001nF	±4.0% of rdg±2 digits
60nF	0.01nF	
600nF	0.1nF	
6µF	0.0001µF	
60µF	0.01µF	
600µF	0.1µF	
6mF	0.001mF	±5% of rdg±5 digits
600mF	0.01mF	

Overload Protection : 250V

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±0.1% of rdg±5 digits
6KΩ	0.001KΩ	
60KΩ	0.01KΩ	
600Ω	0.1KΩ	
6MΩ	0.001MΩ	
60MΩ	0.01MΩ	

FREQUENCY / DUTY

RANGE	RESOLUTION	ACCURACY	
6 Hz	0.001 Hz	±1.0% of rdg±3 digits	
60 Hz	0.01 Hz		
600 Hz	0.1 Hz		
6 KHz	0.001 KHz		
60 KHz	0.01 KHz		
600 KHz	0.1 KHz		
6 MHz	0.001 MHz		
10 MHz	0.01 MHz		
1.0~99.0%	0.1%		±1.0% of rdg±3 digits

DIODE / CONTINUITY

	Display diode voltage drop
	Approx 50, Buzzer will sound and indicator light will be on

POWER : AAA 1.5 V x 4

Dimension	: H146 x W73 x D26 mm
Weight	: Approx 182 g.
Accessories	: Test leads, User Manual, TP04 Thermocouple & Battery.
Qty	: 50 Pcs. in a Box

MULTIMETER

YX-360 TRE-B



DC Current



Resistance



AC / DC Voltage



Diode



Temp



Continuity



Low Battery Indication



Over Range Display



600V

FEATURES :

- ANALOG MULTIMETER WITH MIRROR SCALE
- INBUILT BUZZER AND LED
- 0Ω ADJUSTABLE KNOB
- TRANSISTOR TEST hFE
- DIODE TEST
- ICEO (LEAKAGE CURRENT) TEST

DC VOLTAGE

RANGE	SENSITIVITY	ACCURACY
0.1 V	20KΩ/V	3 (for 1000V) 5
0.5 V		
2.5 V		
10 V		
50 V		
250 V		
1000 V		

AC VOLTAGE

RANGE	SENSITIVITY	ACCURACY
10 V	9KΩ/V	4 (for 1000V) 5
50 V		
250 V		
1000 V		

POWER

AAA 1.5V x 2
9V (6F22) x 1
Dimension : H148 x W100 x D35 mm
Weight : Approx. 280 Gms.
Accessories : Test leads, User Manual & Battery.
Qty : 40 Pcs. in a Box.

DC CURRENT

RANGE	VOLTE DROP	ACCURACY
50μA	250mV	FSD : 3 (10A:5)
2.5 mA		
25mA		
0.25A		
10A		

RESISTANCE

RANGE	MIDSCALE	ACCURACY
x1-0.2Ω~2KΩ	20Ω	FSD : 3
x10-2Ω~20KΩ	200Ω	
x100-20Ω~200KΩ	2KΩ	
x1K-200Ω~2MΩ	20KΩ	
x10K-2KΩ~20MΩ	200KΩ	

- hFE 0-1000 (with connector extra)
- **During hFE test :**
Range select x 10 (15mA) for small transistor, 1 (150mA) for big transistor,
- I_{CEO} 150uA-15mA-150mA

DIGITAL MULTIMETER

DM-830L



Performance with Precision



DC Current



Resistance



AC / DC Voltage



Diode



Back Light



Continuity



Low Battery Indication



600V



Over Range Display

FEATURES :

- 3½ DIGIT MANUAL MULTIMETER
- 1,999 COUNT
- BUILT-IN **DOUBLE FUSE** EFFECTIVELY PREVENTS SHORT CIRCUIT BURNOUT
- SHORT CIRCUIT PROTECTION
- OVER CURRENT PROTECTION
- HIGHER FREQUENCY RESPONSE TO 400Hz
- hFE TEST
- DATA HOLD
- IP20 CERTIFIED

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	100µV	±0.5% of rdg ±3 digits
2V	1mV	
20V	10mV	
200V	100mV	±0.8% of rdg ±5 digits
600V	1v	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
20µA	0.01µA	±1% of rdg±3 digits
200µA	0.1µA	
2mA	1µA	
20mA	10µA	±1.0% of rdg±5 digits
200mA	100µA	±1.5% of rdg±5 digits
10A	10mA	±3% of rdg±10 digits

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200V	100mV	±1.2% of rdg±10 digits
600V	1V	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg±5 digits
2KΩ	1Ω	±0.8% of rdg±2 digits
20KΩ	10Ω	
200KΩ	100Ω	
2MΩ	1KΩ	±1.0% of rdg±5 digits

Maximum open circuit voltage : 3.2V
Overload protection : 250V DC or RMS. AC

TRANSISTOR hFE TEST (0-1000)

RANGE	TEST RANGE	TEST CURRENT	TEST VOLTAGE
NPN & PNP	0~1000	LB≈10µA	VCE≈3V

POWER : 9V (6F22) x 1

Dimension	: H144 x W74 x D40 mm
Weight	: Approx. 250 gms.
Accessories	: Test leads, User Manual & Battery.
Qty	: 40 Pcs. in a Box.



DC Current



NCV



AC / DC Voltage



Resistance



Back light



Diode



Low Battery Indication



Continuity



Over Range Display



600V

FEATURES :

- 3½ DIGIT MANUAL MULTIMETER
- 1,999 COUNT
- DATA HOLD
- TRUE RMS
- NCV
- hFE TEST
- LIVE WIRE RECOGNITION
- INPUT IMPEDANCE: 200mV range >40MΩ, other ranges is 10MΩ
- AUTO POWER OFF : AFTER 15 MIN.

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	100uV	±0.5% of rdg ±4 digits
2000mV	1mV	
20V	10mV	
200V	100mV	
600V	1V	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
20uA	10nA	±1.0% of rdg±5 digits
2mA	10uA	
200mA	100uA	±2% of rdg±5 digits
10A	10mA	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200V	100mV	±1.0% of rdg±5 digits
600V	1V	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg±5 digits
2KΩ	1Ω	
20KΩ	10Ω	±0.8% of rdg±1 digit
2MΩ	1kΩ	
200MΩ	100kΩ	±1.2% of rdg±5 digits

TRANSISTOR hFE TEST (0-1000)

RANGE	TEST RANGE	TEST CURRENT	TEST VOLTAGE
NPN & PNP	0~1000	1B ≈15μA	VCE≈1.2V

POWER : AAA 1.5V x 2

Dimension	: H140 x W72 x D37 mm
Weight	: Approx.195gms.
Accessories	: Test leads, User Manual & Battery.
Qty	: 50 Pcs. in a Box



AC / DC Current

NCV

AC / DC Voltage

Frequency

Back light

Capacitance

Diode

Continuity

Low Battery Indication

Over Range Display

CAT III
600V

FEATURES :

- 4½ DIGIT MULTIMETER
- 19,999 COUNT
- DIODE TEST
ANTI SHOCK PROTECTION
- AUTO POWER OFF
- hFE TEST
- DATA HOLD

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	10µV	±0.05% of rdg ±3 digits
2V	100µV	
20V	1mV	
200V	10mV	±0.1% of rdg ±5 digits
1000V	100mV	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200µA	0.01µA	±0.5% of rdg ±4 digits
2mA	0.1µA	
20mA	1µA	
200mA	10µA	±0.8% of rdg ±6 digits
20A	1mA	±2.0% of rdg ±15 digits

FREQUENCY

RANGE	RESOLUTION	ACCURACY
200kHz	10 Hz	±3.0% of rdg ±15 digits

TRANSISTOR hFE TEST

RANGE	RESOLUTION	ACCURACY
NPN or PNP	0~1000	Base DC current is approx 10µA Vce is approx 3V

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	10µA	±0.8% of rdg ±25 digits
20V	1mV	
200V	10mV	
750V	100mV	±1.0% of rdg ±25 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	10µA	±1.5% of rdg ±25 digits
20A	1mA	±2.5% of rdg ±35 digits

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
2nF	0.1pF	±3.5% of rdg ±10 digits
20nF	1pF	
200nF	10pF	
2µF	100pF	±3.8% of rdg ±20 digits
200µF	10nF	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.01Ω	±0.2% of rdg ±10 digits
2kΩ	0.1Ω	
20kΩ	1Ω	±0.2% of rdg ±5 digits
200kΩ	10Ω	
2MΩ	100Ω	±5% of rdg ±10 digits ±10 digits
200MΩ	10kΩ	

DIODE AND CONTINUITY TESTING

RANGE	DISPLAYED VALUE	CONDITION
→)	Diode forward voltage drop	Forward DC current is about 1mA, backward voltage is approx. 3V
	Buzzer rings when the impedance between the two test points is less than (30±10) Ω	Open voltage is approx. 3V

POWER : 9V (6F22) x 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test Leads, User Manual & Battery.
Qty	: 30 Pcs. in a Box.



- A**
AC / DC Current
- V**
AC / DC Voltage
- Back light
- Diode
- Continuity
- Low Battery Indication
- NCV**
NCV
- Hz**
Frequency
- Ω**
Resistance
- Capacitance
- OL**
Over Range Display
- CAT III**
600V

FEATURES :

- 4½ DIGIT MULTIMETER
- 19,999 COUNT
- AUTO POWER OFF
- CONDUCTANCE
- hFE TEST
- DATA HOLD

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	10μV	±0.1% of rdg ±5 digits
2V	100μV	
20V	1mV	
200V	10mV	
1000V	100mV	±0.2% of rdg ±5 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200μA	0.01μA	±0.5% of rdg ±4 digits
2mA	0.1μA	
20mA	1μA	±0.8% of rdg ±6 digits
200mA	10μA	
20A	1mA	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
2kHz	0.1 Hz	±3.0% of rdg ±15 digits
200kHz	0.10 Hz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	100μA	±0.8% of rdg ±25 digits
20V	1mV	
200V	10mV	±1.0% of rdg ±25 digits
750V	100mV	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
200mA	10μA	±1.5% of rdg ±25 digits
20A	1mA	±2.5% of rdg ±35 digits

CONDUCTION

RANGE	RESOLUTION	ACCURACY
(0.1-100) nS	0.1nS	±1.0% of rdg ±5 digits

TRANSISTOR (hFE) TEST

RANGE	SCOPE	TEST CONDITION
NPN OR PNP	0~1000	Base DC current is approx 10μA, Vce is about 3V

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.01Ω	±0.2% of rdg ±10 digits
2kΩ	0.1Ω	
20kΩ	1Ω	±0.2% of rdg ±5 digits
200kΩ	10Ω	
2MΩ	100Ω	±0.8% of rdg ±5 digits
20MΩ	1kΩ	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
2nF	0.1pF	±3.5% of rdg ±10 digits
20nF	1pF	
2μF	100pF	
200μF	10nF	±3.8% of rdg ±20 digits

POWER : 9V (6F22) x 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test Leads, Manual & Battery
Qty	: 30 Pcs. in a Box.



- AC / DC Current
- Frequency
- AC / DC Voltage
- Resistance
- Continuity
- Capacitance
- Low Battery Indication
- Diode
- Over Range Display
- CAT III**
600V

FEATURES:

- 3½ DIGIT MANUAL MULTIMETER
- 1,999 COUNT
- TRUE RMS
- AUTO POWER OFF
- hFE TEST
- LIVE WIRE RECOGNITION
- LIVE REMOTE CONTROL TESTING
- FULL OVERLOAD PROTECTION

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1mV	±1.2% of rdg±5 digits
2V	1mV	
20V	10mV	
200V	100mV	±1.5% of rdg±5 digits
1000V	1V	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	10µA	±1.5% of rdg±5 digits
200mA	100µA	±2% of rdg±5 digits
10A	10mA	±3% of rdg±5 digits

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
20V	10mV	±1.5% of rdg±5 digits
200V	100mV	
750V	1V	±2% of rdg±7 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	10µA	±2.5% of rdg±5 digits
200mA	100µA	
10A	10mA	±3% of rdg±7 digits

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
20nF	10p	±4.0% of rdg ±25 digits
200nF	100pF	
2µF	1nF	±4.0% of rdg±15 digits
200µF	10nF	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±1.5% of rdg±5 digits
2KΩ	1Ω	
20KΩ	10Ω	
200KΩ	100Ω	
2MΩ	1KΩ	
20MΩ	10KΩ	±2% of rdg±5 digits
200MΩ	100KΩ	±5% of rdg±10 digits

FREQUENCY

RANGE	RESOLUTION	ACCURACY
2kHz	0.001kHz	±1.5% of rdg ±10 digits
200kHz	0.1kHz	

TRANSISTOR hFE TEST (0-1000)

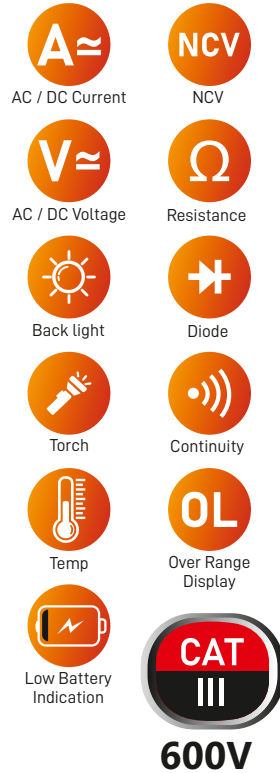
RANGE	DESCRIPTION DISPLAY	MEASURING CONDITION
hFE	0~1000β	LBO~10µA VCE~2.8V

POWER : AA1.5V x 2

Dimension	: H170 x W85 x D38 mm
Weight	: Approx 180 Gms.
Accessories	: Test leads, User Manual & Battery.
Qty	: 42 Pcs. in a Box

DIGITAL MULTIMETER

DM 83T



FEATURES :

- 3½ DIGITS
- TRUE RMS
- 1999 COUNT
- hFE TEST
- DATA HOLD
- AUTO POWER OFF
- AUTO / MANUAL RANGE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1 mV	±0.5% of rdg±4 digits
2V	1 mV	
20V	10 mV	
200V	100mV	
600V	1V	±1.0% of rdg±4 digits

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	1 mV	±0.8% of rdg±6 digits
20V	10 mV	
200V	100 mV	
600V	1 V	±1.0% of rdg±6 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg±5 digits
2kΩ	1Ω	±0.8% of rdg±1 digit
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1KΩ	
20MΩ	10kΩ	±1.2% of rdg±5 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200uA	0.1uA	±1.0% of rdg±5 digits
2000uA	1uA	
20mA	10uA	
200mA	100uA	
2A	1mA	
10A	10mA	±2.0% of rdg±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
200uA	0.1uA	±1.5% of rdg±5 digits
2000uA	1uA	
20mA	10uA	
200mA	100uA	
2A	1mA	
10A	10mA	±2.0% of rdg±10 digits

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C±(1.0% ±5) digit ≥400°C±(1.5% ±15) digit
-40~1832°F	1°F	<750°F±(1.0% ±5) digit ≥750°F±(1.0% ±15) digit

DIODE AND CONTINUITY TESTING

MEASUREMENT	RANGE	TEST CONDITION
→ •)	Diode forward voltage drop	Forward DC current is approx 0.8 mA, reverse voltage is approx 2.2V
	When the resistance under test is less than 50Ω, buzzer sounds continuously	Open circuit voltage 2.2 V

TRANSISTOR (hFE)

MEASUREMENT	RANGE	CONDITION
hFE NPN OR PNP	0~1000	Base current is approx 15uA, VCE is about 1.2V

POWER : AAA1.5 V x 2

Dimension : H140 x W72 x D37 mm
Weight: Approx 195g.
Accessories : Test leads, User Manual, TP04 Thermocouple & Battery.
Qty : 40 Pcs. in a Box.

DIGITAL MULTIMETER

DM 85T



FEATURES :

- 3⁵ DIGITS
- 5,999 COUNT
- TRUE RMS
- DATA HOLD / REL
- AUTO RANGE MODE
- AUTO POWER OFF
- hFE TEST
- DUTY CYCLE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1 mV	±0.5% of rdg±4 digits
6V	1 mV	
60V	10 mV	±1.0% of rdg±4 digits
600V	100mV	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
600uA	0.1uA	±1.0% of rdg±5 digits
6000uA	1uA	
60mA	10uA	
600mA	100uA	
6A	1mA	
10A	10mA	±2.0% of rdg±10 digits

FREQUENCY

RANGE	RESOLUTION	ACCURACY
10Hz	0.01Hz	±0.5% of rdg±4 digits
100Hz	0.001Hz	
1000Hz	1Hz	
10KHz	10Hz	
100KHz	100Hz	
1MHz	1kHz	
10MHz	10kHz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
6V	1 mV	±0.8% of rdg±6 digits
60V	10 mV	
600V	100mV	±1.0% of rdg±6 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
600uA	0.1uA	±1.5% of rdg±5 digits
6000uA	1uA	
60mA	10uA	
600mA	100uA	
6A	1mA	±2.0% of rdg±10 digits
10A	10mA	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C ±(1.0%+5) ≥400°C ±(1.5%+15)
0~1832°F	1°F	<750°F ±(1.0%+5) ≥750°F ±(1.5%+15)

DIODE AND CONTINUITY TESTING

MEASUREMENT	RANGE	TEST CONDITION
	Diode forward voltage drop	Forward DC current is approx 0.8 mA, reverse voltage is approx 2.2V
	When the resistance under test is less than 50Ω, buzzer sounds continuously	Open circuit voltage 2.2 V

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±0.8% of rdg±5 digits
6KΩ	1Ω	
60KΩ	10Ω	±0.8% of rdg±1 digit
600Ω	100Ω	
6MΩ	1KΩ	
60MΩ	10KΩ	±1.2% of rdg±5 digits

CAPACITANCE

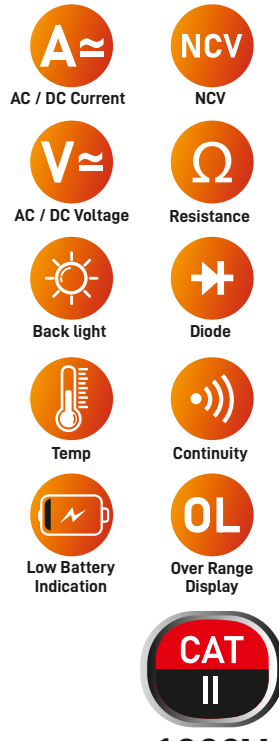
RANGE	RESOLUTION	ACCURACY
60nF	10pF	±2.5% of rdg±6 digits
600nF	100pF	
6uF	1pF	±2.5% of rdg±5 digits
60uF	10nF	
600uF	100nF	
6mF	1uF	±5.0% of rdg±8 digits
600mF	10uF	

POWER : AAA1.5 V x 2

Dimension	: H140 x W72 x D37 mm
Weight	: Approx 195 g.
Accessories	: Test leads, User Manual, TP04 Thermocouple & Battery.
Qty	: 40 Pcs. in a Box.

DIGITAL MULTIMETER

DM-86



FEATURES :

- 3½ DIGIT MULTIMETER
- 1,999 COUNT
- MAX / MIN MODE WITH DATA HOLD
- hFE TEST
- AUTO POWER OFF
- TRUE RMS
- NCV

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1mV	±0.5% of rdg ±4 digits
2V	1mV	
20V	10mV	
200V	100mV	
1000V	1V	±1.0% of rdg ±4 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200µA	0.01µA	±1.0% of rdg ±5 digits
2000µA	1µA	
20mA	10µA	
200mA	100µA	
2A	1mA	
10A	10mA	±2.0% of rdg ±10 digits

TRANSISTOR hFE TEST (0-1000)

RANGE	TEST RANGE	TEST CURRENT / VOLTAGE
NPN & PNP	0~1000	Base current is approximate 15µA Vce about 1.2V

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	1mV	±0.8% of rdg ±6 digits
20V	10mV	
200V	100mV	
750V	1V	±1.0% of rdg ±6 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
200µA	0.01µA	±1.5% of rdg ±5 digits
2000µA	1µA	
20mA	10µA	
200mA	100µA	
2A	1mA	
20A	10mA	±2.0% of rdg ±10 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±1.0% of rdg ±3 digits
2kΩ	1Ω	
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	±1.5% of rdg ±3 digits
200MΩ	10kΩ	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C ±(1.0% +5) digit ≥400°C ±(1.5% +15) digit
0~1832°F	1°F	<750°F ±(1.0% +5) digit ≥750°F ±(1.5% +15) digit

POWER : 9V (6F22) x 1

Dimension	: H170 x W86 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test leads, User Manual, TP04 Temperature Probe & Battery.
Qty	: 30 Pcs. in a Box.



- AC / DC Current
- Frequency
- AC / DC Voltage
- Resistance
- Back light
- Capacitance
- Diode
- Continuity
- Temp
- Over Range Display
- Low Battery Indication
- 600V**

FEATURES :

- 3^{1/2} DIGIT MULTIMETER
- 5,999 COUNT
- VSD & TRUE RMS
- DATA HOLD
- AUTO POWER OFF
- hFE TEST
- DUTY CYCLE
- ANALOG BAR
- MAX/MIN VALUE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.01mV	±1.0% of rdg ±5 digits
6V	1mV	±0.5% of rdg ±3 digits
60V	10mV	
600V	100mV	
1000V	1mV	±1.0% of rdg ±3 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
600μA	0.1μA	±1.0% of rdg ±3 digits
6000μA	1μA	
60mA	10μA	
600mA	100μA	
6A	1mA	±2.0% of rdg ±5 digits
20A	10mA	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
(-40~1000)°C	<400°C ±1% of rdg ±5 digits	1°C
	≥400°C ±1.5% of rdg ±15 digits	
(0~1832)°F	<750°F ±1% of rdg ±5 digits	1°F
	≥750°F ±1% of rdg ±15 digits	

VARIABLE FREQUENCY VOLTAGE

RANGE	RESOLUTION	ACCURACY	
		30Hz-60Hz	60Hz-200Hz
6V	1mV	±2.0% of rdg ±10 digits	±5.0% of rdg ±10 digits
60V	10mV	±3.0% of rdg ±10 digits	-
600V	100mV	±3.0% of rdg ±10 digits	-
750V	1V	±3.0% of rdg ±10 digits	-

AC VOLTAGE (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
6V	1mV	50Hz-5kHz: ±1.0% of rdg + 10 digits
60V	10mV	5kHz-20kHz: ±1.5% of rdg + 10 digits
600V	100mV	<200V 50Hz-5kHz & 200V 50Hz-1kHz: ±1.0 of rdg + 10 digits
750V	1V	50Hz-1kHz: ±1.0% of rdg + 10 digits

AC CURRENT (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
600μA	0.1μA	±1.2% of rdg + 20 digits / (40Hz-400Hz)
6000μA	1μA	
60mA	10μA	
600mA	100μA	
6A	1mA	±1.5% of rdg + 20 digits / (40Hz-400Hz)
20A	10mA	±2.5% of rdg ±20 digits / (40Hz-400Hz)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±0.8% of rdg ±5 digits
6kΩ	1Ω	±0.8% of rdg ±3 digits
60kΩ	10Ω	
600kΩ	100Ω	
6MΩ	1kΩ	±1.2% of rdg-10 digits ±5 digits
30MΩ	10kΩ	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
40nF	10pF	±2.5% of rdg ±10 digits
400nF	100pF	±2.5% of rdg ±5 digits
4μF	1nF	
40μF	10nF	
400μF	100nF	±5.0% of rdg ±10 digits
2000μF	1uF	

TRANSISTOR hFE TEST

RANGE	RESOLUTION	ACCURACY
NPN or PNP	0~1000	Base current is approx 15μA Vce is approx 4.5V

POWER : 9V (6F22) x 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test Lead, Manual, TP01 Temperature Probe & Battery.
Qty	: 30 Pcs. in a Box.



- AC / DC Current
- Frequency
- AC / DC Voltage
- Resistance
- Back light
- Capacitance
- Temp
- Diode
- Low Battery Indication
- Continuity
- Over Range Display
-

FEATURES :

- 3 3/4 DIGIT
- 3,999 COUNT
- hFE TEST
- COMS, TTL LOGIC TEST
- TRUE RMS
- DUTY CYCLE
- AUTO POWER OFF
- AUTO / MANUAL RANGE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
400mV	0.1mV	±0.5% of rdg ±5 digits
4V	1mV	
40V	10mV	
400V	100mV	
1000V	1V	±1.0% of rdg ±5 digits

AC VOLTAGE (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
4V	1mV	±0.8% of rdg ±10 digits
40V	10mV	
400V	100mV	
750V	1V	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±0.8% of rdg±5 digits
4kΩ	1Ω	±0.8% of rdg±1 digits
40kΩ	10Ω	
400kΩ	100Ω	
4MΩ	1kΩ	±1.2% of rdg±5 digits
40MΩ	10kΩ	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
400μA	0.01μA	±1.0% of rdg±5 digits
4000μA	1μA	
40mA	10μA	
400mA	100μA	
4A	1mA	±2.0% of rdg±5 digits
20A	10mA	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
400μA	0.01μA	±1.5% of rdg±10 digits
4000μA	1μA	
40mA	10μA	
400mA	100μA	
4A	1mA	±2.0% of rdg±10 digits
40A	10mA	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40°C~1000°C	<400°C ± (1.0% +5)	1°C
	>400°C ± (1.5% +15)	
-40°F~1832°F	<750°F ± (1.0% +5)	1°F
	>750°F ± (1.5% +15)	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
4nF	1pF	±5.0% of rdg±8 digits
40nF	10pF	±3.5% of rdg±8 digits
400nF	100pF	
4μF	1nF	
40μF	10nF	±5.0% of rdg±8 digits
200μF	100nF	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
10Hz	0.001Hz	±0.5% of rdg±4 digits
100Hz	0.01Hz	
1000Hz	0.1 Hz	
10kHz	1Hz	
100kHz	10Hz	
1MHz	100Hz	
10MHz	1kHz	

DIODE AND CONTINUITY TESTING

RANGE	DESCRIPTION	TEST CONDITION
	Diode forward voltage drop	Forward DC current is approx 0.8 mA, reverse voltage is approx 2V
	When the resistance under test is less than 50Ω, buzzer sounds continuously	Open circuit voltage 2V

LOGIC TEST

LOGIC	DISPLAY	RANGE	RESOLUTION
HIGH LEVEL		CMOS	>4.0V
		TTL	>2.5V
VARIABLE LEVEL		CMOS	>2.0V & <4.0V
		TTL	>0.8V & <2.5V
LOW LEVEL		CMOS	<2.0V
		TTL	<0.8V

TRANSISTOR (hFE) TEST

MEASUREMENT	DISPLAY RANGE	TEST CONDITION
hFE NPN or PNP	0~1000	Base current is approx 15uA, Vce is about 4.5V

POWER : AAA 1.5V x 2

Dimension	: H170 x W86 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test leads, Manual TP04 Temperature Probe & Battery.
Qty	: 30 Pcs. in a Box.



- AC / DC Current
- AC / DC Voltage
- Back light
- Temp
- Data Hold
- Over Range Display
- Frequency
- Resistance
- Capacitance
- Diode
- Continuity
- Low Battery Indication



FEATURES :

- 3½ DIGIT MANUAL MULTIMETER
- 1,999 COUNT
- AUTO POWER OFF UNDER NATURAL OPERATION
- TERMINAL SHUTTER INTERLOCK MECHANISM
- TRANSISTOR (hFE) TESTING

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1 mV	±0.5% of rdg ±1 digit
2V	1mV	±0.5% of rdg ±3 digits
20V	10mV	
200V	100mV	
1000V	1V	±0.8% of rdg ±3 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
20µA	10nA	±1.2% of rdg±3 digits
2mA	1µA	±1.0% of rdg±3 digits
200mA	100µA	±1.5% of rdg±5 digits
10A	10mA	±2.0% of rdg±10 digits

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-20~0°C	1°C	±5.0% of rdg±5 digits
0~400°C		±1.0% of rdg±3 digits
400~1000°C		±2.0% of rdg±3 digits

TRANSISTOR hFE TEST

RANGE	TEST RANGE	TEST CURRENT/VOLTAGE
NPN or PNP	0-1000	1b=10µF/VCE=3A

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	1mV	±1.0% of rdg ±5 digits
20V	10mV	
200V	100mV	
700V	1V	±1.2% of rdg ±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	10µA	±1.2% of rdg±5 digits
200mA	100µA	±2.0% of rdg±5 digits
10A	10mA	±3.0% of rdg±10 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±1.0% of rdg±10 digits
2kΩ	1Ω	±1.0% of rdg±1 digits
20kΩ	10Ω	
200kΩ	100Ω	
20MΩ	10kΩ	±1.0% of rdg±5 digits
200MΩ	100kΩ	±5.0% of rdg-10 digits±20 digits

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
2nF	1pF	±4.0% of rdg±3 digits
200nF	0.1nF	
2µF	1nF	
200µF	100nF	±5.0% of rdg±3 digits

FREQUENCY

RANGE	RESOLUTION	ACCURACY
200KHz	100Hz	±1.5% of rdg±10 digits

POWER : 9V (6F22) X 1

Dimension	: H191 x W82 x D36 mm
Weight	: Approx. 310 Gms.
Accessories	: Test leads, Fuse, Manual, 'K' Type Thermocouple, Holster & Battery.
Qty	: 42 Pcs. in a Box.



- AC / DC Current
- Resistance
- AC / DC Voltage
- Capacitance
- Back light
- Continuity
- Diode
- Over Range Display
- Low Battery Indication
- CAT III**
600V

FEATURES :

- 3½ DIGIT MANUAL MULTIMETER
- 1,999 COUNT
- hFE TEST
- DATA HOLD
- FULL PROTECTION IN ALL RANGE
- AUTO POLARITY INDICATION
- AUTO POWER OFF

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1 mV	±0.5% of rdg ±3 digits
2V	1mV	
20V	10mV	
200V	100mV	
1000V	1V	±1.0% of rdg ±3 digits

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	1mV	±0.8% of rdg ±5 digits
20V	10mV	
200V	100mV	
750V	1V	±1.2% of rdg ±5 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg±5 digits
2kΩ	1Ω	
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	±1.0% of rdg±15 digits
20MΩ	10kΩ	
200MΩ	100kΩ	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200μA	0.1μA	±0.8% of rdg±3 digits
2mA	1μA	
20mA	10μA	±1.2% of rdg±4 digits
200mA	100μA	
20A	10mA	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	10μA	±1.0% of rdg±5 digits
200mA	100μA	±2.0% of rdg±5 digits
20A	10mA	±3.0% of rdg±10 digits

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
20nF	10pF	±2.0% of rdg±20 digits
200nF	100pF	
2μF	1nF	
200μF	100nF	±2.5% of rdg±20 digits

TRANSISTOR hFE TEST

RANGE	TEST RANGE	TEST CURRENT/VOLTAGE
NPN or PNP	0-1000	1b=10μF/VCE=3A

SPECIAL FUNCTION :

- Continuity Buzzer** : Approx. <300Ω+10Ω
- Sampling Rate** : 3 Times per second
- AC Frequency Response** : 40~400Hz
- Low Battery Indication** : <7.5V
- Auto Power Off** : Approx. 30 Min.

POWER : 9V (6F22) X 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test leads, User Manual & Battery.
Qty	: 30 Pcs. in a Box.



- A_≈**
AC / DC Current
- V_≈**
AC / DC Voltage
- ☀**
Back light
- +**
Diode
- TEMP**
Temp
- TRMS**
True RMS
- Low Battery Indication**
- NCV**
NCV
- Hz**
Frequency
- Ω**
Resistance
- +**
Capacitance
- ⦿**
Continuity
- OL**
Over Range Display
- CAT III**
600V

FEATURES :

- 3 1/2 DIGIT MULTIMETER
- 3,999 COUNT
- AUTO POWER OFF
- DATA HOLD, MAX/MIN, REL
- NCV
- TRUE RMS
- hFE TEST
- DUTY CYCLE
- AUTO RANGE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
400mV	0.1mV	±0.5% of rdg ±5 digits
4V	1mV	
40V	10mV	
400V	100mV	
1000V	1V	±1.0% of rdg ±5 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
400μA	0.1μA	±0.1% of rdg ±5 digits
4000μA	1μA	
40mA	10μA	
400mA	100μA	
4A	1mA	±2.0% of rdg ±5 digits
20A	10mA	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
10Hz	0.001 Hz	±2.5% of rdg ±6 digits
100Hz	0.01 Hz	±2.5% of rdg ±5 digits
1000Hz	0.1 Hz	
10kHz	1 Hz	
100kHz	10 Hz	±5.0% of rdg ±8 digits
1MHz	100 Hz	
30MHz	1 kHz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
400mV	0.1mV	±1.5% of rdg ±10 digits
4V	1mV	±0.8% of rdg ±10 digits
40V	10mV	
400V	100mV	
750V	1V	
		±1.0% of rdg ±10 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
400μA	0.1μA	±1.5% of rdg ±10 digits
4000μA	1μA	
40mA	10μA	
400mA	100μA	
4A	1mA	
20A	10mA	

TRANSISTOR (hFE) TEST

MEASUREMENT	RANGE	TEST CONDITION
hFE NPN OR PNP	0~1000	Base current is approx 15μA, Vce is about 4.5V

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40°C~1000°C	1°C	<400°C ±(0.8%+4) ≥400°C ±(1.5%+15)
0°F~1832°F	1°F	<750°C ±(1.0%+5) ≥750°C ±(1.5%+15)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±0.8% of rdg ±5 digits
4kΩ	1Ω	±0.8% of rdg ±2 digits
40kΩ	10Ω	
400kΩ	100Ω	
4MΩ	1kΩ	
40MΩ	10kΩ	±1.2% of rdg ±5 digits

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
40nF	10pF	±2.5% of rdg ±6 digits
400nF	100pF	±2.5% of rdg ±5 digits
4μF	1nF	
40μF	10nF	
400μF	100nF	
4mF	1μF	±5.0% of rdg ±8 digits
40mF	10μF	

- **SAMPLING RATE** : Approx 3 times / Sec.
- **AUTO POWER OFF** : After 15 mints with alarm buzzer.

POWER : AAA 1.5V x 2

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 Gms.
Accessories	: Test Leads, Sheath, TP01 Thermocouple, Manual
Qty	: 30 Pcs. in a Box.



AC / DC Current	NCV
AC / DC Voltage	Frequency
Back light	Resistance
Torch	Capacitance
Diode	Continuity
Temp	Over Range Display
Low Battery Indication	CAT IV 600V

FEATURES :

- 3^{1/2} DIGIT MULTIMETER
- 5,999 COUNT
- AUTO RANGE
- AUTO POWER OFF : 15 MIN.
- MAX/MIN HOLD
- DUAL LCD WITH BARGRAPH
- LIVE TEST (SOUND AND LIGHT ALARM)
- NCV
- TRUE RMS
- DOUBLE COLOUR BACKLIGHT
- INPUT JACK LED INDICATOR
- SAMPLING RATE: 3 TIMES/SECOND
- INPUT POLARITY INDICATION: AUTOMATICALLY DISPLAY "____".

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±0.5% of rdg ±3 digits
6V	0.001V	
60V	0.01V	
600V	0.1V	
1000V	1V	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
600µA	0.1µA	±1.2% of rdg ±3 digits
6000µA	1µA	
60mA	0.01mA	
600mA	0.1mA	
10A	0.01A	

FREQUENCY/DUTY

RANGE	RESOLUTION	ACCURACY
10Hz	0.001 Hz	±1.0% of rdg ±3 digits
100Hz	0.01Hz	
1000Hz	0.1Hz	
10kHz	0.001kHz	
100kHz	0.01kHz	
1000kHz	0.1kHz	±3.0% of rdg ±3 digits
10MHz	0.001MHz	
1~99%	0.1%	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±0.8% of rdg ±5 digits
6V	0.001V	
60V	0.01V	
600V	0.1V	
750V	1V	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
600µA	0.1µA	±1.5% of rdg ±3 digits
6000µA	1µA	
60mA	0.01mA	
600mA	0.1mA	
10A	0.01A	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
°C	1°C	-20°C~0°C ±5.0% rdg or ±3°C
		0°C~400°C ±1.0% rdg or ±2°C
		400°C~1000°C ±2.0% rdg
°F	1°F	-4°F~32°F ±5.0% rdg or ±6°F
		32°F~752°F ±1.0% rdg or ±4°F
		752°F~1832°F ±2.0% rdg

- **SAMPLING RATE** : Approx 3 times / Sec.
- **AUTO POWER OFF** : After 15 mints.
- **INPUT POLARITY** : Automatically Display.

RESISTANCE

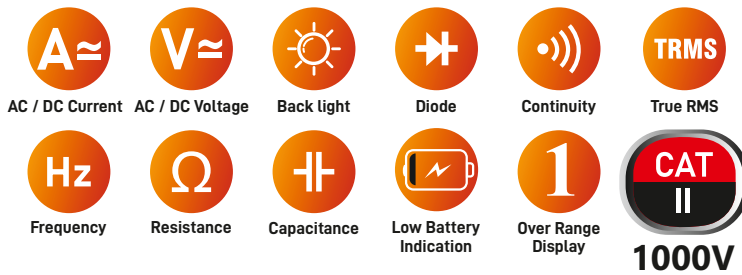
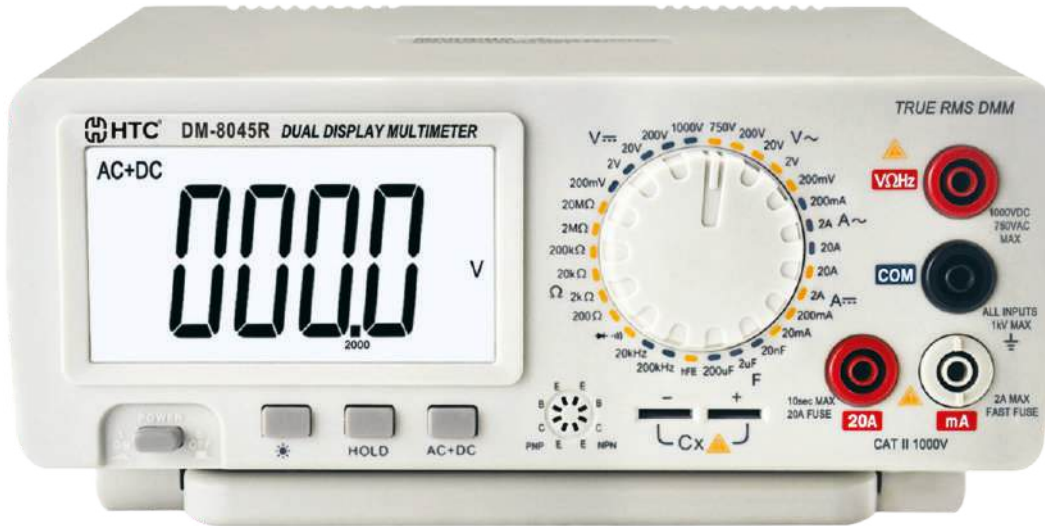
RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±1.0% of rdg ±3 digits
6kΩ	0.001Ω	
60kΩ	0.01kΩ	
600kΩ	0.1kΩ	±1.5% of rdg ±3 digits
6MΩ	0.001MΩ	
60MΩ	0.01MΩ	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
10nF	0.001nF	±4.0% of rdg ±5 digits
100nF	0.01nF	
1000nF	0.1nF	
10µF	0.001µF	
100µF	0.01µF	
1000µF	0.1µF	±5.0% of rdg ±5 digits
10mF	0.001mF	
100mF	0.01mF	

POWER : AAA 1.5V x 2

Dimension	: H190 x W88 x D53 mm
Weight	: Approx. 290 Gms.
Accessories	: Test Leads, Sheath, TP04 Thermocouple, Manual & Battery .
Qty	: 40 Pcs. in a Box.



FEATURES :

- 4½ DIGIT MULTIMETER
- 19,999 COUNT
- TRUE RMS
- DATA HOLD
- hFE TEST
- FUSE PROTECTION

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	10µV	±0.05% of rdg ±3 digits
2V	100µV	
20V	1mV	
200V	10mV	±0.1% of rdg ±5 digits
1000V	100mV	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
20kHz	1Hz	±1.0% of rdg ±20 digits
200kHz	10Hz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY	INPUT FREQUENCY
200mV	10µV	±0.8% of rdg ±80 digits	50Hz-50kHz
2V	100µV		50Hz-20kHz
20V	1mV		50Hz-5kHz
200V	10mV	±1.0% of rdg ±50 digits	50Hz-400kHz
750V	100mV		

AC CURRENT

RANGE	RESOLUTION	ACCURACY	INPUT FREQUENCY
200mA	10µA	±0.8% of rdg ±80 digits	50Hz-5kHz
2A	100µA	±1.5% of rdg ±50 digits	50Hz-400kHz
20A	1mA		

• **SAMPLING RATE** : Approx 3 times / Sec.

DC CURRENT

RANGE	RESOLUTION	ACCURACY
20mA	1µA	±0.35% of rdg ± 10 digits
200mA	10µA	
2A	100µA	±0.8% of rdg ± 10 digits
20A	1mA	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
20nF	1pF	±3.5% of rdg ±20 digits
2µF	100pF	
200µF	10nF	±5.0% of rdg ±30 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.01Ω	±0.1% of rdg ±20 digits
2kΩ	0.1Ω	±0.1% of rdg ±5 digits
20kΩ	1Ω	
200kΩ	10Ω	
2MΩ	100Ω	
20MΩ	1kΩ	±0.5% of rdg ±5 digits

FREQUENCY

RANGE	RESOLUTION	ACCURACY
20kHz	1Hz	±1.0% of rdg ±20 digits
200kHz	10Hz	

DIODE AND CONTINUITY TESTING

RANGE	DESCRIPTION	TEST CONDITION
→)	The measuring value is the approx. value for forward voltage drop. When the resistance under tested is less than 30Ω±10Ω, buzzer sounds, and displays the approx. value. The open circuit voltage is approx. 3V.	Forward DCA is approx. 1mA, backward DCV is less than 3V

TRANSISTOR hFE TEST

RANGE	RESOLUTION	ACCURACY
NPN or PNP	0-1000	Base current is approx 10µA Vce is approx 3V

POWER : DC 220V

Dimension	: H260 x W220 x D82 mm
Weight	: Approx. 2Kgs.
Accessories	: Test Leads, Sheath, Power Cord & Manual
Qty	: 8 Pcs. in a Box.



- AC/DC Voltage
- AC/DC Current
- Back light
- Frequency
- Temp
- Resistance
- Diode
- Capacitance
- Continuity
- NCV
- Over Range Display
- Auto Power Off
- Insulation Resistance
- Low Battery Indication



FEATURES :

- 3⁵/₁₀ DIGITS
- 5,999 COUNT
- TRUE RMS
- INSULATION RESISTANCE
- DUTY CYCLE
- DATA HOLD
- DUAL INTEGRAL A/D CONVERSION INTEGRATED CIRCUIT
- AUTOMATIC RANGE MODE

- Auto Power Off after 15 Mints.
- Input Impedance : 10MΩ
- Sampling Rate: Approximately 3 times / second

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1 mV	±(0.5%+5 digits)
6V	1mV	
60V	10mV	
600V	100mV	±(1.0%+5 digits)
1000V	1V	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
6mA	1μA	±(1.0%+5 digits)
60mA	10μA	
600mA	100μA	
6A	1mA	±(2.0%+5 digits)
20A	10mA	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
60nF	10pF	±(2.5%+6 digits)
600nF	100pF	
6μF	1nF	±(2.5%+5 digits)
60μF	10nF	
600μF	100nF	
6mF	1μF	±(5.0%+8 digits)
60mF	10μF	

AC VOLTAGE (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
6V	1mV	±(0.8%+10 digits)
60V	10mV	
600V	100mV	±(1.0%+10 digits)
750V	1V	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
6mA	1μA	±(1.5%+5 digits)
60mA	10μA	
600mA	100μA	
6A	1mA	±(2.0%+5 digits)
20A	10mA	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
50kHz	Switch to display ACV	±(0.5%+4 digits)

DIODE AND CONTINUITY TESTING

RANGE	DISPLAYED VALUE	CONDITION
	Diode forward voltage drop	Forward DC current approximately 1.5mA, reverse voltage about 4V.
	When resistance value is less than 50Ω the buzzer sounds.	Open circuit voltage about 2V.

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(0.8%+5 digits)
6kΩ	1Ω	
60kΩ	10Ω	±(0.8%+2 digits)
600kΩ	100Ω	
6MΩ	1kΩ	±(1.2%+5 digits)
60MΩ	10kΩ	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
(-40~1000)°C	<400°C± (1% +5 digits)	1°C
	≥400°C± (1% +5 digits)	
(-40~1832)°F	<750°F± (1% +5 digits)	1°F
	≥750°F± (1% +5 digits)	

INSULATION RESISTANCE TESTING

RANGE	TEST CONDITIONS	ACCURACY
300MΩ	250V	±(4%+2 digits)
500MΩ	500V	
2000MΩ	1000V	

POWER : AA 1.5V X 6

Dimension	: H200 x W92 x D50 mm
Weight	: Approx. 480 Gms.
Accessories	: Test Lead, Shockproof Cover, Carry Case, TP01 Temperature Probe, Crocodile Clips, Manual & Battery.



- AC/DC Voltage
- AC/DC Current
- Back light
- Frequency
- Temp
- Resistance
- Diode
- Capacitance
- NCV
- Continuity
- Insulation Resistance
- Inductance
- Low Battery Indication
- Over Range Display
- Auto Power Off
- CAT III 600V

FEATURES :

- 3⁵/₁₀ DIGITS
- 5,999 COUNT
- TRUE RMS
- INSULATION RESISTANCE
- INDUCTANCE
- DUTY CYCLE
- DATA HOLD
- AUTO RANGE SWITCHING
- DUAL INTEGRAL A/D CONVERSION INTEGRATED CIRCUIT

- Auto Power Off after 15 Mints.
- Input Impedance : 10MΩ
- Sampling Rate: Approximately 3 times / second

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1 mV	±(0.5%+5 digits)
6V	1mV	
60V	10mV	
600V	100mV	
1000V	1V	±(1.0%+5 digits)

DC CURRENT

RANGE	RESOLUTION	ACCURACY
6mA	1μA	±(1.0%+5 digits)
60mA	10μA	
600mA	100μA	
6A	1mA	
20A	10mA	±(2.0%+5 digits)

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
60nF	10pF	±(2.5%+6 digits)
600nF	100pF	
6μF	1nF	
60μF	10nF	±(2.5%+5 digits)
600μF	100nF	
6mF	1μF	
60mF	10μF	
		±(5.0%+8 digits)

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
(-40~1000)°C	<400°C± (1% +5 digits)	1°C
	≥400°C± (1% +5 digits)	
(-40~1832)°F	<750°F± (1% +5 digits)	1°F
	≥750°F± (1% +5 digits)	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
6V	1mV	±(0.8%+10 digits)
60V	10mV	
600V	100mV	
750V	1V	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
6mA	1μA	±(1.5%+5 digits)
60mA	10μA	
600mA	100μA	
6A	1mA	
20A	10mA	±(2.0%+5 digits)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(0.8%+5 digits)
6kΩ	1Ω	
60kΩ	10Ω	±(0.8%+2 digits)
600kΩ	100Ω	
6MΩ	1kΩ	±(1.2%+5 digits)
60MΩ	10kΩ	

DIODE AND CONTINUITY TESTING

RANGE	DISPLAYED VALUE	CONDITION
	Diode forward voltage drop	Forward DC current approximately 1.5mA, reverse voltage about 4V.
	When resistance value is less than 50Ω the buzzer sounds.	Open circuit voltage about 2V.

FREQUENCY

RANGE	RESOLUTION	ACCURACY
10Hz	0.001Hz	±(0.5%+4 digits)
100Hz	0.01Hz	
1000Hz	0.1Hz	
10kHz	1Hz	
100kHz	10Hz	
1MHz	100Hz	
10MHz	1kHz	

INDUCTANCE (L)

RANGE	RESOLUTION	ACCURACY
6mH	1uH	±(1.5%+5 digits)
60mH	10uH	
600mH	100uH	
6H	1mH	
60H	10mH	
100H	100mH	

INSULATION RESISTANCE TESTING

RANGE	CONDITIONS	ACCURACY
2000MΩ	1000V	±(4%+2 digits)

POWER : AA 1.5V X 6

Dimension	: H200 x W92 x D50 mm
Weight	: Approx. 480 Gms.
Accessories	: Test Lead, Shockproof Cover, Carry Case, TP01 Temperature Probe Manual & Battery.

SMART CLAMP METER

20S



Performance with Precision



- AC Current
- NCV
- AC / DC Voltage
- Frequency
- Back light
- Resistance
- Torch
- Capacitance
- Temp
- Diode
- Low Battery Indication
- Continuity
- Over Range Display
- CAT III 600V

FEATURES :

- 3³/₄ DIGITS
- 5,999 COUNTS
- COLOUR DISPLAY
- DATA HOLD
- MIN / MAX
- TRUE RMS
- AUTO POWER OFF
- DUTY CYCLE
- LIVE WIRE DETECTION
- ANALOG BAR



AUTO MODE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1 mV	±(0.5% rdg+5)
6V	0.001V	
60V	0.01V	
600V	0.1V	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±(2.5% rdg+5)
600A	0.1A	±(3.0% rdg+10)

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
6nF	0.001nF	±(4.0% rdg+5)
60nF	0.01nF	
600nF	0.1nF	
6µF	0.001µF	
60µF	0.01µF	
600µF	0.1µF	
6mF	0.001mF	
60mF	0.01mF	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±(0.8% of rdg+5)
6V	0.001 V	
60V	0.01 V	
600V	0.1 V	

FREQUENCY / DUTY

RANGE	RESOLUTION	ACCURACY
100Hz	0.01Hz	±1.0% of rdg±3 digits
1000Hz	0.1Hz	
10kHz	0.001kHz	
100kHz	0.01kHz	
1000kHz	0.1kHz	±3.0% of rdg±3 digits
10MHz	0.001MHz	
1~99%	0.1%	±3.0% of rdg±3 digits

DIODE

	It displays the approximate forward voltage value of the diode	Reserve DC voltage is about 3V overload protection : 250V
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CONTINUITY

	<50Ω, the buzzer sounds and the green indicator LED on.	Test Voltage Approx 1V Overload protection: 250V
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RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(0.1% rdg+5)
6KΩ	0.001KΩ	
60KΩ	0.01KΩ	
600KΩ	0.1KΩ	
6MΩ	0.001MΩ	
60MΩ	0.01MΩ	

TEMPERATURE

UNIT	RESOLUTION	ACCURACY	
°C	1°C	-40°C~10°C	±3°C
		10°C~100°C	±2°C
		100°C~1000°C	±2.0%
°F	1°F	-40°F~50°F	±6°F
		50°F~212°F	±4°F
		212°F~1832°F	±2.0%

POWER : 1.5V AAA x 3

Jaw Size	: 36 mm
Dimension	: H197 x W73 x D34 mm
Weight	: Approx 206 gms.
Accessories	: Test leads, User Manual, TP04 Thermocouple Probe, Carry Case & Battery
Qty	: 40 Pcs. in a Box



AC / DC Current	NCV
AC / DC Voltage	Frequency
Back light	Resistance
Torch	Capacitance
Temp	Diode
Low Battery Indication	Continuity
Over Range Display	CAT III 600V

FEATURES :

- 3³/₄ DIGITS
- 5,999 COUNTS
- COLOUR DISPLAY
- DATA HOLD
- MIN / MAX
- TRUE RMS
- AUTO POWER OFF
- DUTY CYCLE
- LIVE WIRE DETECTION



DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1 mV	±(0.5% rdg+5)
6V	0.001V	
60V	0.01V	
600V	0.1V	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±(2.5% rdg+5)
600A	0.1A	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
6nF	0.001nF	±(4.0% rdg+5)
60nF	0.01nF	
600nF	0.1nF	
6µF	0.001µF	
60µF	0.01µF	
600µF	0.1µF	
6mF	0.001mF	
60mF	0.01mF	

DIODE

	It displays the approximate forward voltage value of the diode	Reserve DC voltage is about 3V overload protection : 250V
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AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±(0.8% of rdg+5)
6V	0.001 V	
60V	0.01 V	
600V	0.1 V	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±(2.5% rdg+5)
600A	0.1A	±(3.0% rdg+10)

FREQUENCY / DUTY

RANGE	RESOLUTION	ACCURACY
100Hz	0.01Hz	±(1.0% of rdg+3)
1000Hz	0.1Hz	
10kHz	0.001kHz	
100kHz	0.01kHz	
1000kHz	0.1kHz	
10MHz	0.001MHz	±(3.0% of rdg+3)
1~99%	0.1%	

CONTINUITY

	<50Ω, the buzzer sounds and the green indicator LED on.	Test Voltage Approx 1V Overload protection: 250V
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RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(1.0% rdg+5)
6KΩ	0.001KΩ	
60KΩ	0.01KΩ	
600KΩ	0.1KΩ	
6MΩ	0.001MΩ	
60MΩ	0.01MΩ	

TEMPERATURE

UNIT	RESOLUTION	ACCURACY
°C	1°C	-40°C~10°C ±3°C
		10°C~100°C ±2°C
		100°C~1000°C ±2.0%
°F	1°F	-40°F~50°F ±6°F
		50°F~212°F ±4°F
		212°F~1832°F ±2.0%

POWER : 1.5V AAA x 3

Jaw Size	: 36 mm
Dimension	: H197 x W73 x D34 mm
Weight	: Approx 206 gms.
Accessories	: Test leads, User Manual, TP04 Thermocouple Probe, Carry Case & Battery
Qty	: 40 Pcs. in a Box

600A AC DIGITAL CLAMP METER

CM-2000



Performance with Precision



AC / DC Voltage	NCV
AC Current	Torch
Resistance	Diode
Temp	Continuity
Back light	Over Range Display
Low Battery Indication	CAT II 600V

FEATURES :

- 3½ DIGIT
- 1,999 COUNT
- JAW OPEN : 28 MM
- AUTO POWER OFF (APO)
- NON CONTACT VOLTAGE (NCV)
- TRUE RMS
- DATA HOLD

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1 mV	±0.5% of rdg ±5 digits
2V	1mV	
20V	10mV	
200V	100mV	
600V	1V	±1.0% of rdg ±5 digits

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1 mV	±1.5% of rdg ±10 digit
2V	1mV	±1.0% of rdg ±5 digits
20V	10mV	
200V	100mV	
600V	1V	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg ±5 digits
2kΩ	1Ω	±0.8% of rdg ±1 digits
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	
20MΩ	10kΩ	±1.2% of rdg ±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
2A	1mA	±3.0% of rdg ±5 digits
20A	10mA	
200A	100mA	
600A	1A	±2.0% of rdg ±5 digits

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40°C~1000°C	1°C	<400°C ±(1.0% +5) digit ≥400°C ±(1.5% +15) digit
0°F~1832°F	1°F	<750°F ±(1.0% +5) digit ≥750°F ±(1.5% +15) digit

POWER : 1.5V AAA x 2

Dimension	: H240 x W110 x D45 mm
Weight	: Approx. 200g.
Accessories	: Test leads, User Manual Carrying Bag & Battery.
Qty	: 40 Pcs. in a Box

800A AC DIGITAL CLAMP METER

CM-2007



Performance with Precision



- AC / DC Voltage
- AC Current
- Torch
- Diode
- Temp
- Back light
- Low Battery Indication
- NCV
- Frequency
- Resistance
- Capacitance
- Continuity
- Over Range Display
- CAT II 600V

FEATURES :

- 3 3/4 DIGIT
- 3,999 COUNT
- JAW OPEN : 28 MM, WITH LIGHTING
- AUTO POWER OFF (APO)
- TRUE RMS
- DATA HOLD

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
400mV	0.1mV	±1.0% of rdg ±5 digits
4V	1mV	±0.5% of rdg ±5 digits
40V	10mV	
400V	100mV	
600V	1V	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
4A	1mA	±3.0% of rdg ±5 digits
40A	10mA	
400A	100mA	±2.0% of rdg ±5 digits
800A	1A	

FREQUENCY/DUTY

RANGE	RESOLUTION	ACCURACY
10Hz	0.01 Hz	±0.5% of rdg ±4 digits
100Hz	0.1Hz	
1kHz	1Hz	
10kHz	10Hz	
100kHz	100Hz	
1MHz	1kHz	
10MHz	10kHz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
4V	1mV	±1.0% of rdg ±5 digits
40V	10mV	
400V	100mV	
600V	1V	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±0.8% of rdg ±5 digits
4kΩ	1Ω	±0.8% of rdg ±3 digits
40kΩ	10Ω	
400kΩ	100Ω	
4MΩ	1kΩ	±1.0% of rdg ±5 digits
40MΩ	10kΩ	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C ±(1.0% +5) digit ≥400°C ±(1.5% +15) digit
0~1832°F	1°F	<750°F ±(1.0% +5) digit ≥750°F ±(1.5% +15) digit

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
4nF	1pF	±5.0% of rdg ±10 digits
40nF	10pF	
400nF	100pF	±2.5% of rdg ±5 digits
4μF	1nF	
40μF	10nF	
400μF	100nF	±5.0% of rdg ±10 digits
4mF	1μF	
40mF	10μF	

POWER : 1.5V AAA x 2

Dimension	: H185 x W65 x D32 mm
Weight	: Approx. 200 g.
Accessories	: Test leads, User Manual, TP04 Thermocouple, Carrying Bag & Battery.
Qty	: 40 Pcs. in a Box.

800A AC/DC DIGITAL CLAMP METER

CM-2016



Performance with Precision



AC / DC Voltage	NCV
AC/DC Current	Frequency
Torch	Resistance
Diode	Capacitance
Temp	Continuity
Back light	Over Range Display
Low Battery Indication	CAT II 600V

FEATURES :

- 3⁵/₆ DIGIT
- 5,999 COUNT
- JAW OPEN : 28 MM WITH LIGHTING
- AUTO POWER OFF (APO)
- NON CONTACT VOLTAGE (NCV)
- TRUE RMS
- FULLY PROTECTED IN ALL RANGES
- DUTY CYCLE / REL & DATA HOLD
- COMPACT & EASILY PORTABLE
- LCD SCREEN WITH 18 MM DIGIT DISPLAY
- Hz / DUTY CYCLE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±1.0% of rdg ±5 digits
6V	1mV	±0.5% of rdg ±5 digits
60V	10mV	
600V	100mV	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±1.5% of rdg ±5 digits
600A	0.1A	
800A	1A	

FREQUENCY/DUTY

RANGE	RESOLUTION	ACCURACY
10Hz	0.01 Hz	±0.5% of rdg ±4 digits
100Hz	0.1Hz	
1kHz	1Hz	
10kHz	10Hz	
100kHz	100Hz	
1MHz	1kHz	
10MHz	10kHz	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
(-40~1000)°C	1°C	<400°C±(1.0% +5) digit ≥400°C±(1.5% +15) digit
(0~1832)°F	1°F	<750°F±(1.0% +5) digit ≥750°F±(1.5% +15) digit

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
6V	1mV	±0.8% of rdg ±5 digits
60V	10mV	
600V	100mV	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	0.01A	±1.5% of rdg ±5 digits
600A	0.1A	
800A	1A	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
6nF	1pF	±5.0% of rdg ±10 digits
60nF	10pF	±2.5% of rdg ±5 digits
600nF	100pF	
6μF	1nF	
60μF	10nF	±5.0% of rdg ±10 digits
600μF	100nF	
6mF	1μF	
60mF	10μF	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±0.8% of rdg ±5 digits
6kΩ	1Ω	±0.8% of rdg ±1 digits
60kΩ	10Ω	
600kΩ	100Ω	
6MΩ	1kΩ	
60MΩ	10kΩ	±1.0% of rdg ±5 digits

POWER : 1.5V AAA x 2

Dimension	: H185 x W65 x D32 mm
Weight	: Approx. 200 g.
Accessories	: Test leads, Manual, TP04 Thermocouple, Carrying Bag & Battery.
Qty	: 40 Pcs. in a Box.















800A AC/DC DIGITAL CLAMP METER

CM-2018



Performance with Precision



- 
V
 AC / DC Voltage
- 
NCV
 NCV
- 
A
 AC / DC Current
- 
Hz
 Frequency
- 
Torch
- 
Ω
 Resistance
- 
Diode
- 
Capacitance
- 
Temp
- 
Continuity
- 
Back light
- 
OL
 Over Range Display
- 
Low Battery Indication
- 
CAT II
600V

FEATURES :

- 3⁵% DIGIT
- 5,999 COUNT
- JAW OPEN : 28 MM
- AUTO POWER OFF (APO)
- TRUE RMS
- DUTY CYCLE / REL & DATA HOLD
- LPF & LoZ VOLTAGE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±1.0% of rdg ±5 digits
6V	0.001V	±0.5% of rdg ±5 digits
60V	0.01V	
600V	0.1V	
LoZ 0V-600V	0.1V	±2.0% of rdg ±10 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
60A	10mA	±1.5% of rdg ±5 digits
600A	100mA	
800A	1A	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
6nF	1pF	±5.0% of rdg ±10 digits
60nF	10pF	
600nF	100pF	
6μF	1nF	±2.5% of rdg ±5 digits
60μF	10nF	
600μF	100nF	
6mF	1μF	±5.0% of rdg ±10 digits
60mF	10μF	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
6V	0.001V	±0.8% of rdg ±5 digits
60V	0.01V	
600V	0.1V	
LPF 0V-600V	0.1V	±4.0% of rdg ±5 digits
LoZ 0V-600V	0.1V	±2.0% of rdg ±10 digits

AC CURRENT (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
60A	10mA	±1.5% of rdg ±5 digits
600A	100mA	
800A	1A	

FREQUENCY

RANGE	RESOLUTION	ACCURACY
10Hz~10MHz	0.001 Hz~1kHz	±0.5% of rdg ±4 digits

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C ±(1.0% +5) digit ≥400°C ±(1.5% +15) digit
0~1832°F	1°F	<750°F ±(1.0% +5) digit ≥750°F ±(1.5% +15) digit

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±0.8% of rdg ±5 digits
6kΩ	1Ω	±0.8% of rdg ±1 digits
60kΩ	10Ω	
600kΩ	100Ω	
6MΩ	1kΩ	±1.0% of rdg ±5 digits
60MΩ	10kΩ	

POWER : 1.5V AAA x 2

Dimension	: H185 x W65 x D32 mm
Weight	: Approx. 200 g.
Accessories	: Test leads, Manual, TP04 Thermocouple, Carrying Bag & Battery.
Qty	: 40 Pcs. in a Box.

1000A AC DIGITAL CLAMP METER

CM-2030



Performance with Precision



AC / DC Voltage	NCV
AC Current	Diode
Torch	Resistance
Back light	Continuity
Temp	Over Range Display
Low Battery Indication	CAT III

600V

FEATURES :

- 3½ DIGIT
- 1,999 COUNT
- JAW OPEN : 52 MM
- TRUE RMS
- DATA HOLD
- FUNCTION PROTECTION
- AUTO POWER OFF

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1mV	±0.5% of rdg ±5 digits
20V	10mV	
1000V	1V	±1.0% of rdg ±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
200A	0.1A	±2.0% of rdg±5 digits
1000A	1A	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
20V	10mV	±1.0% of rdg ±5 digits
750V	1V	±1.2% of rdg ±5 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg±5 digits
2kΩ	1Ω	
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	±1.2% of rdg±5 digits
20MΩ	10kΩ	
200MΩ	100kΩ	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40°C~1000°C	1°C	<400°C±(1.0% +5) digit ≥400°C±(1.5% +15) digit
0°F~1832°F	1°F	<750°F±(1.0% +5) digit ≥750°F±(1.5% +15) digit

POWER : 1.5V AAA x 2

Dimension	: H270 x W123 x D35 mm
Weight	: Approx. 280 g.
Accessories	: Test leads, Manual, Carrying Bag & Battery.
Qty	: 30 Pcs. in a Box.

1000A AC/DC DIGITAL CLAMP METER

CM-2046



Performance with Precision



- AC / DC Voltage
- AC / DC Current
- Diode
- Back light
- Temp
- Low Battery Indication
- NCV
- Resistance
- Torch
- Continuity
- Over Range Display
- CAT III 600V

FEATURES :

- 3½ DIGIT
- 1,999 COUNT
- JAW OPEN : 52 MM
- AUTO POWER OFF (APO)
- TRUE RMS
- MAX / MIN / RELATIVE
- DATA HOLD
- AUTO / MANUAL RANGE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1mV	±1.0% of rdg ±5 digits
2V	1mV	±0.5% of rdg ±5 digits
20V	10mV	
200V	100mV	
1000V	1V	±1.0% of rdg ±5 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200V	100mA	±2.0% of rdg ±5 digits
1000V	1A	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1mV	±1.5% of rdg ±5 digits
2V	1mV	±1.0% of rdg ±5 digits
20V	10mV	
200V	100mV	
750V	1V	±1.5% of rdg ±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
200V	100mA	±2.0% of rdg ±5 digits
1000V	1A	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±0.8% of rdg ±5 digits
2kΩ	1Ω	±0.8% of rdg ±3 digits
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	
20MΩ	10kΩ	±1.2% of rdg ±5 digits

POWER : 1.5V AAA x 2

Dimension	: H185 x W65 x D32 mm
Weight	: Approx. 200 g.
Accessories	: Test leads, Manual, TP04 Thermocouple, Carrying Bag & Battery.
Qty	: 30 Pcs. in a Box.

1000A AC/DC DIGITAL CLAMP METER

CM-2056



Performance with Precision



AC / DC Voltage	NCV
AC / DC Current	Frequency
Torch	Resistance
Diode	Capacitance
Temp	Continuity
Back light	Over Range Display
Low Battery Indication	CAT III

600V

FEATURES :

- 3 3/4 DIGIT
- 3,999 COUNT
- JAW OPEN : 52 MM WITH LIGHTING
- AUTO POWER OFF (APO)
- TRUE RMS
- MAX/MIN VALUES WITH DATA HOLD

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
400mV	0.1mV	±1.0% of rdg ±5 digits
4V	1mV	±0.5% of rdg ±5 digits
40V	10mV	
400V	100mV	
1000V	1V	±1.0% of rdg ±5 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
40A	0.01A	±1.5% of rdg ±5 digits
400A	0.1A	
1000A	1A	

FREQUENCY/DUTY

RANGE	RESOLUTION	ACCURACY
10Hz	0.01 Hz	±0.5% of rdg ±4 digits
100Hz	0.1Hz	
1kHz	1Hz	
10kHz	10Hz	
100kHz	100Hz	
1MHz	1kHz	
10MHz	10kHz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
4V	1mV	±0.8% of rdg ±5 digits
40V	10mV	
400V	100mV	
750V	1V	±1.0% of rdg ±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
40A	0.01A	±1.5% of rdg ±5 digits
400A	0.1A	
1000A	1A	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
4nF	1pF	±5.0% of rdg ±10 digits
40nF	10pF	±2.5% of rdg ±5 digits
400nF	100pF	
4μF	1nF	
40μF	10nF	±5.0% of rdg ±10 digits
400μF	100nF	
4mF	1μF	
40mF	10μF	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±0.8% of rdg ±5 digits
4kΩ	1Ω	±0.8% of rdg ±1 digits
40kΩ	10Ω	
400kΩ	100Ω	
4MΩ	1kΩ	±1.0% of rdg ±5 digits
40MΩ	10kΩ	

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C ±(1.0% +5) digit ≥400°C ±(1.5% +15) digit
0~1832°F	1°F	<750°F ±(1.0% +5) digit ≥750°F ±(1.5% +15) digit

POWER : 1.5V AAA x 2

Dimension	: H270 x W123 x D35 mm
Weight	: Approx. 280 g.
Accessories	: Test leads, Manual, TP04 Thermocouple, Carrying Bag & Battery
Qty	: 30 Pcs. in a Box

1000A AC DIGITAL CLAMP METER

CM-2070 FT



Performance with Precision



AC / DC Voltage	NCV
AC Current	Frequency
Torch	Resistance
Back light	Capacitance
Diode	Continuity
Temp	Over Range Display
Low Battery Indication	600V

FEATURES :

- 3 3/4 DIGIT
- 3,999 COUNT
- JAW OPEN : 52 MM WITH LIGHTING
- AUTO POWER OFF (APO)
- NON CONTACT VOLTAGE (NCV)
- TRUE RMS
- DATA HOLD
- MAX / MIN FUNCTION
- RELATIVE VALUE MEASUREMENT

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
400mV	0.1mV	±1.0% of rdg ±5 digits
4V	1mV	±0.5% of rdg ±5 digits
40V	10mV	
400V	100mV	
1000V	1V	±1.0% of rdg ±5 digits

AC CURRENT

RANGE	RESOLUTION	ACCURACY
4A	1mA	±1.5% of rdg ±5 digits
40A	10mA	
400A	100mA	
1000A	1A	

FREQUENCY/DUTY

RANGE	RESOLUTION	ACCURACY
10Hz	0.01 Hz	±0.5% of rdg ±4 digits
100Hz	0.1Hz	
1kHz	1Hz	
10kHz	10Hz	
100kHz	100Hz	
1MHz	1kHz	
10MHz	10kHz	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
4V	1mV	±0.8% of rdg ±5 digits
40V	10mV	
400V	100mV	
750V	1V	±1.0% of rdg ±5 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
400Ω	0.1Ω	±0.8% of rdg ±5 digits
4kΩ	1Ω	±0.8% of rdg ±1 digits
40kΩ	10Ω	
400kΩ	100Ω	
4MΩ	1kΩ	
40MΩ	10kΩ	±1.0% of rdg ±5 digits

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-40~1000°C	1°C	<400°C ±(1.0% +5) digits ≥400°C ±(1.5% +15) digits
0~1832°F	1°F	<750°F ±(1.0% +5) digits ≥750°F ±(1.5% +15) digits

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
4nF	1pF	±5.0% of rdg ±10 digits
40nF	10pF	±2.5% of rdg ±5 digits
400nF	100pF	
4μF	1nF	
40μF	10nF	
400μF	100nF	±5.0% of rdg ±10 digits
4mF	1μF	
40mF	10μF	

POWER : 1.5V AAA x 2

Dimension	: H270 x W123 x D35 mm
Weight	: Approx. 280 g.
Accessories	: Test leads, Manual, TP04 Thermocouple, Carrying Bag & Battery.
Qty	: 30 Pcs. in a Box

AC LEAKAGE CURRENT TESTER

CL-2054



AC Voltage



Low Battery Indication



AC Current



Over Range Display



Resistance



600V



Continuity

FEATURES :

- 3¾ DIGIT
- 3,999 COUNT
- JAW OPEN : 30 MM
- AUTO POWER OFF (APO)
- REL / MAX / MIN AND DATA HOLD
- BAR GRAPH DISPLAY
- COM TERMINAL

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY	
		50/60 Hz	40-1 KHz
400V	0.1 V	±1.5% ±2 digits	±2.0% ±4 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
40-400Ω	0.1Ω	±1.0% ±2 digits

POWER : 9V NEDA 1604 x 1

Dimension	: H210 x W62 x D35.6 mm
Weight	: Approx. 200g.
Accessories	: Test leads, User Manual Leather Box & Battery.
Qty	: 30 Pcs. in a Box.

AC CURRENT

RANGE	RESOLUTION	ACCURACY	
		50/60 Hz	WIDE 400-1 KHz
40mA	10uA	±1.0% ±0.5 mA	±4.5% ±0.5 mA
400mA	100uA	±3.0% ±5.0 mA	±3.0% ±5.0 mA
4A	1mA	±4.0% ±0.1 A	±4.0% ±0.1 A
40A	10mA	±4.0% ±1.0 A	±4.0% ±1.0 A
80A	100mA	±2.5% ±1.0 A	±3.0% ±1.5 A
80-100A ¹	100mA	±5.0% ±1.0 A	±5.0% ±1.5 A

AC/DC DIGITAL CLAMP METER

CL-2055



Performance with Precision



AC / DC Voltage



AC / DC Current



Resistance



Continuity



Low Battery Indication



Over Range Display



300V

FEATURES :

- 4 DIGIT
- 9,999 COUNT
- JAW OPEN 12.5 MM
- AUTO POWER OFF (APO)
- TRUE RMS
- DATA HOLD / PEAK HOLD
- ELECTROMAGNETIC COMPATIBILITY
- LONG BATTERY LIFE

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600V	0.1V	±1.0% of rdg ±2 digits

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600V	0.1V	±1.5% of rdg ±5 digits

RESISTANCE

RANGE	RESOLUTION	ACCURACY
10KΩ	0.1Ω	±1.0% of rdg ±3 digits

DC CURRENT

RANGE	RESOLUTION	ACCURACY
10A	1mA	±2.5% of rdg ±10 digits
80A	10mA	±4.5% of rdg ±10 digits
80~100A	10mA	

AC CURRENT

RANGE	RESOLUTION	ACCURACY
10A	1mA	±2.0% of rdg ±10 digits
80A	10mA	±3.5% of rdg ±10 digits
80~100A	10mA	

POWER : 1.5V AAA x 2

Dimension	: H202 x W70 x D34 mm
Weight	: Approx. 180 g.
Accessories	: Test leads, User Manual, Leather Carrying Bag & Battery.
Qty	: 10 Pcs. in a Box.

2000 AC/DC TRMS SOLAR PV CLAMP METER

CM-2061PV



Performance with Precision



- AC / DC Voltage
- AC/DC Current
- Frequency
- Capacitance
- Resistance
- Backlight
- Temperature
- True RMS
- Jaw Open Capacity
- Solar
- Over Range Display
- LoZ Measurement
- Inrush Current Measurement
- NCV
- Continuity
- Live Wire Detection
- Flashlight
- MAX / MIN / REL Function
- Diode
- Duty Cycle
- Auto Power Off
- Low Battery Indication

FEATURES :

- 5,999 COUNTS
- JAW SIZE 67 MM
- DATA HOLD
- LARGE LCD WITH BIG FONT SIZE
- TRUE RMS
- NCV
- DIODE
- LIVE WIRE DETECTION
- PEAK VOLTAGE MEASUREMENT
- MAX / MIN / RELATIVE FUNCTION
- DUTY CYCLE
- FULL OVER LOAD PROTECTION
- TEMPERATURE °F & °C
- K-TYPE THERMOCOUPLE
- BACKLIGHT & FLASLIGHT
- BOTH AUTO & MANUAL RANGE
- LoZ MEASUREMENT
- AUTO POWER OFF



AC VOLTAGE (2kV~Hz%)

RANGE	RESOLUTION	DCV	ACV	OVERLOAD PROTECTION
600mV	0.1 mV	± (0.8%+3)	-	2000V AC/DC
6V	0.001V	± (0.5%+5)	± (1.0%+5)	
60V	0.01V			
600V	0.1V			
2000V	1V			

AC VOLTAGE / DC VOLTAGE LoZ

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
1000V	1V	± (2.0%+5)	1000V DC / AC

CONTINUITY (•)))

RANGE	RESOLUTION	REMARKS	OVERLOAD PROTECTION
600 Ω	0.1 Ω	Open circuit : Resistance >50Ω, no beep; well connected circuit: resistance <50Ω, consecutive beep	600V AC/DC

AC CURRENT, DC CURRENT (A~Hz%)

RANGE	RESOLUTION	DCA	ACA	OVERLOAD PROTECTION
60A	0.01A	± (2.0%+5)	± (2.0%+5)	2000A
600A	0.1A			
2000A	1A			-

INRUSH CURRENT, DC CURRENT (A~Hz%)

RANGE	RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
INRUSH CURRENT ACA	2000A	1A	± (10%+10)	2000A

• Measurement time is around 100ms

DIODE (→+)

RANGE	RESOLUTION	REMARKS	OVERLOAD PROTECTION
6V	0.001V	Open circuit voltage: about 3V, measurable PN junction : forward voltage drop ≤3V, for silicon PN junction, the normal value is generally about 0.5~0.8V	600V AC/DC

CAPACITANCE (F)

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
1.0 nF	0.001 nF	± (4.0%+25)	600V DC/AC
10.0 nF	0.01 nF		
100.0 nF	0.1 nF		
1.0 uF	0.001 uF	± (4.0%+5)	
10.0 uF	0.01 uF		
100.0 uF	0.1 uF		
1.0 mF	0.001 mF	± (10.0%+9)	
10.0 mF	0.01 mF		
100.0 mF	0.1 mF		

TEMPERATURE (°C / °F)

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
-40°C~0°C	1°C	± 4	600V DC/AC
0°C~400°C		± (2%+3)	
400°C~1300°C		± (3%+3)	
-40°F~50°F	1°F	± 5	
50°F~750°F		± (2%+5)	
573°F~1832°F		± (3%+5)	

K-TYPE THERMOCOUPLE IS APPLICABLE

LIVE WIRE RECOGNITION (LIVE)

RANGE	ACCURACY	OVERLOAD PROTECTION
LIVE	When the tip of test leads contacts the wire for detection, if there is no voltage detected, the LCD display "LIUE", If detected voltage, the LCD display "_____", and flashing red lights up and buzzer sounded.	1000V DC/AC

- Size of LCD display** : 45 x 39mm
- Polarity display** : Auto
- Sampling rate** : 3 times/s
- Sensor type** : Hall effect sensor
- Test position error** : If the source under test is not placed at the center of the clamp jaws when measuring current, ±1.0% additional error in reading maybe generated
- Max.Jaw opening** : 67mm
- Jaws internal size** : 74.1(L) x 56.7(W)mm
- Max.measured conductor size** : φ57mm (copper bar: 16x74)
- Loz measurement** : Auto. Identify AC & DC voltage, once internal resistance value is at approx 1.8MΩ
- Auto power off** : 15 minutes (can be disabled)

RESISTANCE (Ω)

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
600 Ω	0.1 Ω	± (1.0%+3)	600V DC/AC
6 kΩ	0.001 kΩ	± (1.0%+2)	
60 kΩ	0.01 kΩ		
600 kΩ	0.1 kΩ		
6 MΩ	0.001 MΩ	± (2.0%+8)	
60 MΩ	0.01 MΩ		

FREQUENCY / DUTY CYCLE (Hz%)

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
1Hz~10MHz	0.001Hz~1 KHz	± (1.0%+3)	600V DC/AC
10.0%~90.0%	0.1%	± (2.6%+7)	

NON-CONTACT VOLTAGE (NCV) DETECTION

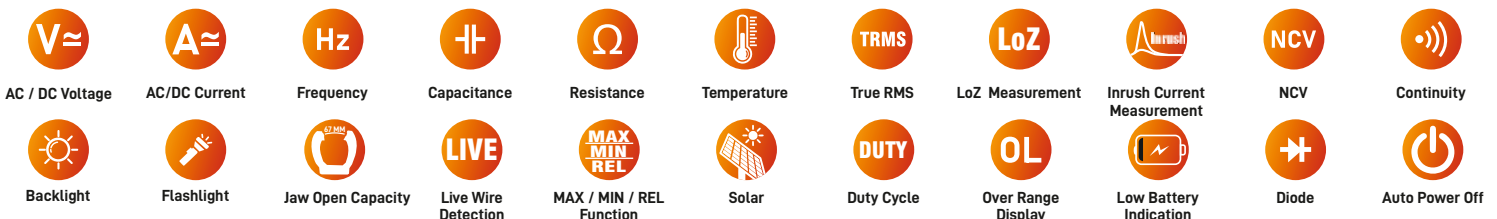
RANGE	ACCURACY	OVERLOAD PROTECTION
NCV	Approach the NCV sensor close to a wire to start sensing, when no voltage is detected, the LCD display "EF". As the intensity of the detected voltage is increased, more the flashing red light changes from slow to fast and the buzzer sound from slow to fast	1000V DC/AC

POWER : 1.5V AAA x 3

Dimension : H283 x W110 x D45 mm

Weight : Approx 610 gms.

Accessories : Test leads, User Manual, K-type Thermocouple, Hard Carrying Bag, Battery, Test Probe, Crocodile Clips & **MC4 PV Plug**



MINI CLAMP METER

CL-2053



- AC/DC Current
- AC / DC Voltage
- Capacitance
- Data Hold
- True RMS
- Resistance
- VFC Measurement
- Low Current Measurement
- Continuity
- Back light
- NCV Function
- Diode
- Auto Power Off
- Zero Mode / Rel. Measurement
- Low Battery Indication
- Over Range Display
- CAT III**
300V

FEATURES :

- 1,999 COUNTS
- JAW SIZE 17 MM
- DATA HOLD
- TRUE RMS
- NCV
- DIODE
- V.F.C MODE
- CONTINUITY
- BACKLIGHT
- ZERO MODE / REL. MEASUREMENT
- AUTO RANGE
- AUTO POWER OFF

- Maximum faulty operation protection voltage between input terminal and earthing is 600V
- Maximum overload protection for clamp head terminal: 100A
- Maximum display : 2000 Counts, upadets 2-3 times per second.
- Diode : Approx 3.2V
- Range : Automatic (Exclusive of electricity gear)
- Polarity : Automatic

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	0.1 mV	±(0.7%+5)
2V	1mV	±(0.7%+3)
20V	10mV	
200V	100mV	
600V	1V	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
2V	1mV	±(1.0% +3)
20V	10mV	
200V	100mV	±(1.0% +3) V.F.C. mode: ±(4.0%+3)
600V	1V	±(1.2% +3) V.F.C. mode: ±(4.0%+3)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±(1.0%+2)
2KΩ	1Ω	
20KΩ	10Ω	
200KΩ	100Ω	
2MΩ	1kΩ	±(1.2%+3)
20MΩ	10kΩ	

DC CURRENT

RANGE	RESOLUTION	ACCURACY
2A	1mA	±(2.0% +8)
20A	10mA	±(2.0% +3)
100A	100mA	±(2.0% +3)

AC CURRENT

RANGE	RESOLUTION	ACCURACY
2A	1mA	±(3.0% +10) V.F.C. mode: ±(4.0%+10)
20A	10mA	±(2.5% +8) V.F.C. mode: ±(4.0%+10)
100A	100mA	±(2.5% +5) V.F.C. mode: ±(4.0%+10)

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
2nF	1pF	±(4.0%+10)
20nF~200uF	10pF~100nF	±(4.0%+5)
2mF~20mF	1uF~10uF	±10%

))) CIRCUIT ON-OFF, → DIODE MEASUREMENT

RANGE	RESOLUTION	REMARKS
)))	0.1 Ω	Resistance value for circuit disconnect: >150Ω Buzzer makes no sound; Resistance value for circuit conduct: <10Ω Buzzer beeps continuously.
→	1mV	Open circuit voltage is 3.2V; normal voltage for silicon PN junction is 0.5~0.8v

POWER : 1.5V AAA x 2

Dimension	: H175 x W60 x D33.5 mm
Weight	: Approx 170 gms.
Accessories	: Test leads, User Manual, Probe assemblies 1 pair, Carry Case & Battery



AC / DC Voltage	NCV
AC Current	Diode
Data Hold	Continuity
True RMS	Resistance
Auto Power Off	Low Battery Indication
Over Range Display	CAT III 600V

FEATURES :

- 3½ DIGIT
- 1,999 COUNT
- JAW OPEN : 40MM
- LARGE LCD DISPLAY
- TRUE RMS
- DATA HOLD
- FUNCTION PROTECTION
- REL TEST
- AUTO POWER OFF
- AUTO / MANUAL RANGE

TECHNICAL SPECIFICATION

DC VOLTAGE

RANGE	ACCURACY	RESOLUTION
20V	±(0.5% reading+5)	10mV
1000V		1V

AC VOLTAGE

RANGE	ACCURACY	RESOLUTION
20V	±(1.0% reading+5)	10mV
750V		1V

AC CURRENT

RANGE	ACCURACY	RESOLUTION
200A	±(3.0% reading+5)	100mA
1000A		1A

RESISTANCE

RANGE	ACCURACY	RESOLUTION
200Ω	±(0.8% reading+3)	0.1Ω
2kΩ		1Ω
200kΩ		100Ω
2MΩ		1KΩ

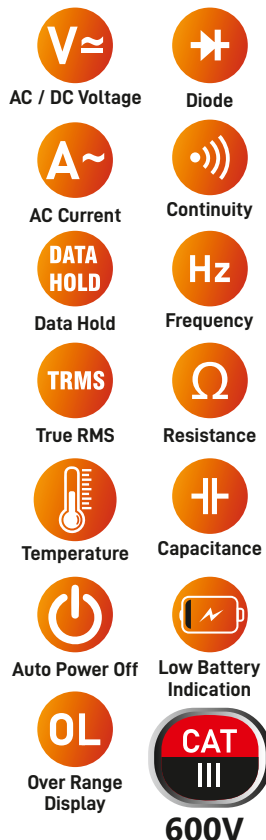
Continuity Test	<50Ω, the buzzer sounds continuously
Low Battery Indicator	Approx less than 2.4V
Auto Power Off	After 15 Minutes
Input Impedance	10Ω
Sampling Rate	3 Times/Sec.
AC Frequency Response	Current 50-60Hz Voltage 40~400Hz

POWER : 9V BATTERY (6F22)

Dimension	: H228 x W75 x D38 mm
Weight	: Approx. 260 g. Including Battery
Accessories	: Test leads, Manual, White Box, Bag & Battery.
Qty	: 30 Pcs. in a Box.

1000A AC DIGITAL CLAMP METER

CM-207 FCT



FEATURES :

- 3½ DIGIT
- 1,999 COUNT
- JAW OPEN : 40MM
- LARGE LCD DISPLAY
- TRUE RMS
- DATA HOLD
- FULL FUNCTION PROTECTION, STRONG ANTI-INTERFERENTIAL PERFORMANCE
- REL TEST
- AUTO / MANUAL RANGE
- AUTO POWER OFF

TECHNICAL SPECIFICATION

DC VOLTAGE

RANGE	ACCURACY	RESOLUTION
200mV	±(0.5% reading+5)	0.1mV
2V		1mV
20V		10mV
200V		0.1V
1000V		1V

AC VOLTAGE

RANGE	ACCURACY	RESOLUTION
2V	±(1.0% reading+5)	1mV
20V		10mV
200V		0.1V
1000V		1V

AC CURRENT

RANGE	ACCURACY	RESOLUTION
200A	±(3.0% reading+5)	100mA
1000A		1A

TEMPERATURE

RANGE	ACCURACY	RESO.
-40~1000°C	<400°C±(1.0%+5) ≥400°C±(1.5%+15)	1°C

RESISTANCE

RANGE	ACCURACY	RESOLUTION
200Ω	±(0.8% reading+3)	0.1Ω
2kΩ		1Ω
20kΩ		10Ω
200kΩ		100Ω
2MΩ		1KΩ
20MΩ		10KΩ

CAPACITANCE

RANGE	ACCURACY	RESOLUTION
2nF	±(3.5% reading+10)	1pF
20nF		10pF
200nF		100pF
2μF		1nF
20μF		10nF
200μF		100nF

FREQUENCY

RANGE	ACCURACY	RESOLUTION
100Hz	±(0.5% reading+5)	0.01Hz
1kHz		0.1Hz
10kHz		1Hz
100kHz		10Hz
1MHz		100Hz

Continuity Test	<50Ω, the buzzer sounds continuously
Auto Power Off	About 15 Minutes
Input Impedance	10Ω
Sampling Rate	3 Times/Sec
AC Frequency Response	Current 50~60Hz Voltage 40~400Hz

POWER : 9V BATTERY (6F22)

Dimension	: H228 x W75 x D38 mm
Weight	: Approx. 260 g. Including Battery
Accessories	: Test leads, Manual, TP01 temperature Probe White Box, Bag & Battery.
Qty	: 30 Pcs. in a Box.

1000A AC WATT CLAMP METER

PC-170A



- AC Voltage
- AC Current
- Back light
- Over Range Display
- Data Hold
- Low Battery Indication
- NCV
- Temp
- Frequency
- Sleep Mode
- Data Logging
- MAX / MIN Mode

CAT III
1000V

FEATURES :

- 9,999 COUNTS
- ACTIVE POWER (750kW), APPARENT POWER (750kVA) REACTIVE POWER 750 (kVAR)
- POWER FACTOR 0.3~1 (CAPACITIVE OR INDUCTIVE)
- PHASE ANGLE -0°-90° (CAPACITIVE OR INDUCTIVE)
- ACTIVE ENERGY 1~9999kWH
- TRUE RMS ACV/ACA
- LARGE LCD DISPLAY WITH BACKLIGHT
- USB INTERFACE, MANUAL DATA MEMORY AND READ (99 SET)
- ANALYSIS FOR SINGLE PHASE AND BALANCED 3 PHASE SYSTEMS
- AUTO RANGING
- DATA LOGGING / RECALL / MAX/MIN MODE / DATA HOLD
- FULL ICON DISPLAY
- ANALOG BAR GRAPH
- JAW SIZE : 55 MM (2.16")

AC VOLTAGE (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
100V	0.1V	±1.2% of rdg ±5 digits
400V		
750V		

AC CURRENT (TRUE RMS)

RANGE	RESOLUTION	ACCURACY
40A	0.1A	±2.0% of rdg ±5 digits
100A		
400A	1A	
1000A		

FREQUENCY

RANGE	RESOLUTION	ACCURACY
50Hz~200Hz	1Hz	±0.5% of rdg ±5 digits

POWER FACTOR

RANGE	RESOLUTION	ACCURACY
0.3~1 (CAPACITIVE OR INDUCTIVE)	0.001	±0.022

PHASE ANGLE

RANGE	RESOLUTION	ACCURACY
0°~90° (CAPACITIVE OR INDUCTIVE)	1°	±2°

ACTIVE ENERGY

RANGE	RESOLUTION	ACCURACY
1~9999K=kWh	0.001kWh	±(3%+2)

TEMP. RANGE

-50°C~1300°C
-58°F~2372°F

ACTIVE POWER VOLTAGE

CURRENT VOLTAGE	VOLTAGE RANGE			ACCURACY	RESOLUTION
	100V	400V	750V		
RANGE	40A	4.00kW	16.00kW	±(3%+5)	<1000kW:0.01kW 100kW: 0.1kW
	100A	10.00kW	40.00kW		
	400A	40.00kW	160.00kW		
	1000A	100.00kW	400.00kW		

APPARENT POWER

CURRENT VOLTAGE	VOLTAGE RANGE			ACCURACY	RESOLUTION
	100V	400V	750V		
CURRENT RANGE	40A	4.00KVA	16.00KVA	±(3%+5)	<1000KVA:0.01KVA 100KVA: 0.1KVA
	100A	10.00KVA	40.00KVA		
	400A	40.00KVA	160.00KVA		
	1000A	100.00KVA	400.00KVA		

REACTIVE POWER

CURRENT VOLTAGE	VOLTAGE RANGE			ACCURACY	RESOLUTION
	100V	400V	750V		
CURRENT RANGE	40A	4.00KVAr	16.00KVAr	±(3%+5)	<1000KVAr:0.01KVAr 100KVAr: 0.1KVAr
	100A	10.00KVAr	40.00KVAr		
	400A	40.00KVAr	160.00KVAr		
	1000A	100.00KVAr	400.00KVAr		

POWER : 9V (6F22) x 1

Dimension	: H270 x W123 x D35 mm	Weight: Approx. 280 g.
Accessories	: Manual, Red Test Lead x 3, Black Test Lead 1, Red Alligator Clip x 3, Black Alligator Clip x 1, USB interface Cable x 1, Software CD x 1, Tool Box, Carrying Case & 9V Battery x 1.	
Qty	: 15 Pcs. in a Box.	



High Accuracy



Capacitance



Compact



Over Range Display



Low Battery Indication



Auto Power Off



1000V

FEATURES :

- 3½ DIGITS
- 1,999 COUNTS
- MEASURE CAPACITANCE OF CABLES, SWITCHES, PCB CIRCUIT
- WIDE RANGE 200pF TO 20mF
- CAPACITOR SELF DISCHARGE FUNCTION
- AUTO POWER OFF
- LIGHT WEIGHT & COMPACT
- HIGH ACCURACY
- LSI CIRCUIT
- ZERO ADJUSTMENT KNOB, CAN CALIBRATE 20 pF.
- SAMPLING TIME : 0-5 SECONDS
- OVER LOAD RANGE SYMBOL "1"

CAPACITANCE

RANGE	RESOLUTION	ACCURACY	TEST FREQUENCY	MAX DISPLAY
200pF	0.1pF	±(0.5%+1)	800Hz	199.9pF
2nF	1pF			1.999nF
20nF	10pF			19.99nF
200nF	100pF			199.9nF
2µF	1000pF			1.999µF
20µF	0.01µF			19.99µF
200µF	0.1µF	±(2%+1)	8Hz	199.9µF
2000µF	1µF			1999µF
20mF	10µF			19.99mF

POWER : 9V (6F22) x 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 g.
Accessories	: Test Alligator Clip Black x 1, Test Alligator Clip Red x 1, User Manual & Battery
Qty	: 30 Pcs. in a Box



- High Accuracy
- Capacitance
- Compact
- Over Range Display
- Low Battery Indication
- Auto Power Off
- CAT II
1000V

FEATURES :

- 3½ DIGITS
- 1,999 COUNTS
- MEASURE CAPACITANCE OF CABLES, SWITCHES, PCB CIRCUIT
- WIDE RANGE 200pF TO 200mF
- CAPACITOR SELF DISCHARGE FUNCTION
- AUTO POWER OFF
- LIGHT WEIGHT & COMPACT
- HIGH ACCURACY
- LSI CIRCUIT
- ZERO ADJUSTMENT KNOB, CAN CALIBRATE 20 pF.
- SAMPLING TIME : 0-5 SECONDS
- OVER LOAD RANGE SYMBOL "1"

CAPACITANCE

RANGE	RESOLUTION	ACCURACY	TEST FREQUENCY	MAX DISPLAY
200pF	0.1pF	±(0.5%+1)	800Hz	199.9pF
2nF	1pF			1.999nF
20nF	10pF			19.99nF
200nF	100pF			199.9nF
2µF	1000pF			1.999µF
20µF	0.01µF			19.99µF
200µF	0.1µF	±(2%+1)	8Hz	199.9µF
2000µF	1µF			1999µF
20mF	10µF			19.99mF
200mF	100mF			199.9mF

POWER : 9V (6F22) x 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290 g.
Accessories	: Test Alligator Clip Black x 1, Test Alligator Clip Red x 1, User Manual & Battery
Qty	: 30 Pcs. in a Box

LCR METER

LCR-4070



Inductance



Capacitance



Resistance



Compact



Low Battery Indication



Over Range Display



Auto Power Off



600V

FEATURES :

- 3½ DIGITS
- 1,999 COUNTS
- INDUCTANCE MEASUREMENT : 0.1uH~20H
- CAPACITANCE MEASUREMENT : 0.1pH~2000uF
- RESISTANCE MEASUREMENT : 0.01Ω~20Ω
- LIGHT WEIGHT & COMPACT
- FULL PROTECTION FUNCTION
- CAPACITOR SELF DISCHARGE FUNCTION
- AUTO POWER OFF
- ZERO ADJUSTMENT TO OBTAIN ACCURATE MEASURING VALUE
- SAMPLING TIME : 0-5 SECONDS
- OVER LOAD RANGE SYMBOL "1"

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
200pF	0.1pF	±(2.0%+5)
2nF	1pF	
20nF	10pF	
200nF	100pF	
2μF	1000pF	
20μF	0.01uF	
200μF	0.1uF	
2000μF	1μF	±(5.0%+5)

INDUCTANCE

RANGE	RESOLUTION	ACCURACY
200uH	0.1uH	±(3.0%+5)
2mH	1uH	±(2.0%+5)
20mH	10uH	
200mH	100uH	
2H	1mF	
20H	10mF	±(5.0%+5)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
20Ω	0.01Ω	±(1.0%+5)
200Ω	0.1Ω	±(0.8%+2)
2KΩ	1Ω	
20KΩ	10Ω	
200KΩ	100Ω	
20MΩ	10KΩ	±(2.0%+5)

POWER : 9V (6F22) x 1

Dimension	: H185 x W93 x D35 mm
Weight	: Approx. 290g.
Accessories	: Test Lead, User Manual Carry case & Battery
Qty	: 30 Pcs. in a Box.

LCR-Q METER

LCR-4080Q



- Inductance
- Capacitance
- Resistance
- Over Range Display
- USB Interface
- Frequency
- Data Hold
- Auto Smart Check
- Low Battery Indication
- Auto Power Off



FEATURES :

- ANALOG BAR GRAPH
- DUAL DISPLAY : MAIN DISPLAY 19,999 COUNT
SECONDARY DISPLAY 1,999 COUNT
- AUTO SMART CHECK
- MEASUREMENT VOLTAGE : 0.6 Vrms
- OUTPUT IMPEDANCE : 120
- BASIC ACCURACY : 0.5%
- OPEN / SHORT CALIBRATION
- AUTO POWER OFF
- DATA HOLD
- USB INTERFACE
- PC RECORD DISPLAY
- LCR AUTOMATIC IDENTIFICATION /
MANUAL MEASUREMENT
- MEASUREMENT FREQUENCY :
100Hz / 120Hz / 1KHz / 10KHz / 100KHz
- RELATIVE MEASUREMENT

RESISTANCE GEAR (R) & Rs/Rp

	DISPLAY RANGE	MIN. RESOLUTION	ACCURACY
100Hz / 120Hz	200.00Ω	0.01kΩ	±(1.0%+5)
	2.0000kΩ	0.1Ω	±(0.3%+5)
	20.000kΩ	1Ω	±(0.3%+5)
	200.00kΩ	0.01kΩ	±(0.5%+5)
	2.0000MΩ	0.1kΩ	±(1.0%+5)
	20.000MΩ	1kΩ	±(2.0%+5)
1 KHz	20.000Ω	0.001Ω	±(1.0%+5)
	200.00Ω	0.01Ω	±(1.0%+5)
	2.0000kΩ	0.1Ω	±(0.3%+5)
	20.000kΩ	1kΩ	±(0.3%+5)
	200.00kΩ	0.01kΩ	±(0.5%+5)
	2.0000MΩ	0.1kΩ	±(1.0%+5)
10 KHz	20.000Ω	0.001Ω	±(1.0%+5)
	200.00Ω	0.01Ω	±(1.0%+5)
	2.0000kΩ	0.1Ω	±(0.3%+5)
	20.000kΩ	1Ω	±(0.5%+5)
	200.00kΩ	0.01kΩ	±(1.0%+5)
	2.0000MΩ	0.1kΩ	±(2.0%+5)
100 KHz	20.000Ω	0.001Ω	±(2.0%+5)
	200.00Ω	0.01Ω	±(2.0%+5)
	2.0000kΩ	0.1Ω	±(1.0%+5)
	20.000kΩ	1Ω	±(2.0%+5)
	200.00Ω	0.01Ω	±(1.0%+5)

CAPACITANCE CAP GEAR (C) & Cs/Cp

	DISPLAY RANGE	MIN. RESOLUTION	ACCURACY
100Hz / 120Hz	20.000nF	1pF	±(2.0%+5)
	200.00nF	0.01nF	±(0.5%+5)
	2000.0nF	0.1nF	±(0.5%+5)
	20.000μF	1nF	±(0.5%+5)
	200.00μF	0.01μF	±(1.0%+5)
	2000.0μF	0.1μF	±(2.0%+5)
	20.00mF	0.1mF	±(2.0%+5)
	2000.0pF	0.1pF	±(1.0%+5)
1 KHz	20.000nF	1pF	±(1.0%+5)
	200.00nF	0.01nF	±(0.5%+5)
	2000.0nF	0.1nF	±(0.5%+5)
	20.000μF	1nF	±(0.5%+5)
	200.00μF	0.01μF	±(1.0%+5)
	2000.0μF	0.1μF	±(1.0%+5)
	20.00mF	0.1mF	±(2.0%+5)
	2000.0pF	0.1pF	±(1.0%+5)
10 KHz	20.000nF	1pF	±(1.0%+5)
	200.00nF	0.01nF	±(1.5%+5)
	2000.0nF	0.1nF	±(2.0%+5)
	2000.0pF	0.1pF	±(2.0%+5)
100 KHz	20.000nF	1pF	±(2.0%+5)
	200.00nF	0.01nF	±(2.0%+5)
	2000.0nF	0.01nF	±(5.0%+5)

INDUCTANCE GEAR (L) & Ls/L

	DISPLAY RANGE	MIN. RESOLUTION	ACCURACY
100Hz / 120Hz	20.000mH	1μH	±(1.0%+5)
	200.00mH	0.01mH	±(0.5%+5)
	2000.0mH	0.01mH	±(0.5%+5)
	20.000H	1mH	±(0.5%+5)
	200.0H	0.01H	±(1.0%+5)
	2000.0H	0.1H	±(1.0%+5)
	2000.0μH	0.1μH	±(1.0%+5)
	20.000mH	1μH	±(0.5%+5)
1 KHz	200.00mH	0.01mH	±(0.5%+5)
	2000.0mH	0.1mH	±(1.0%+5)
	20.000H	1mH	±(1.0%+5)
	200.00H	0.01H	±(2.0%+5)
10 KHz	20.000μH	0.01μH	±(1.0%+5)
	200.00μH	0.01μH	±(1.0%+5)
	2000.0μH	0.1μH	±(0.5%+5)
100 KHz	20.000μH	0.001μH	±(2.0%+5)
	200.00μH	0.01μH	±(2.0%+5)
	2000.0μH	0.1μH	±(2.0%+5)

POWER : 9V (6F22) x 1

Dimension	:
Weight	:
Accessories	:
Qty	:

ELECTRO MAGNETIC FIELD TESTER

EMF-523

RADIO-FREQUENCY ELECTROMAGNETIC FIELD STRENGTH METER



Performance with Precision



Back light



Buzzer On/Off



Over Range Display



Low Battery Indication



Auto Power Off

FEATURES :

- 4½ DIGIT
- 19999 COUNT
- DIGITAL, TRIAXLE MEASUREMENT
- DATA HOLD
- MAX / AVG RECORD
- AUTO POWER OFF : DEFAULT TIME 15 MIN ADJUSTABLE THRESHOLD 0~99 MIN.
- CONFIGURABLE ALARM THRESHOLD AND MEMORY FUNCTION
- EASY & SAFE TO USE
- THREE AXIS MEASUREMENT SENSOR
- SPY CAMERA & WIRELESS BUG FINDER
- MANUAL DATA MEMORY STORING
- CLOCK LCD DISPLAY

FREQUENCY RANGE : 0MHz~3.5GHz

SPECIFIED MEASUREMENT :

- CW SIGNAL (F>50MHz)
- 0.01 V/m~20 V/m
- 0.1 mA/m~532.6 mA/m, 1.1μW/m²~1000mW/m²

DYNAMIC RANGE : Typically 75dB

ABSOLUTE ERROR : 1V/m and 2.45 GHz : ±1.0dB

GENERAL SPECIFICATION

DISPLAY RESOLUTION : 0.1mV/m, 0.1μA/m, 0.1μW/m², 0.001 μW/cm²

SETTING TIME : Typically 1.5s (0 to 90% measurement value)

SAMPLE RATE : 3 Times per second

UNITS : mV/m, V/m, μA/m, mA/m, μW/m², mW/m², μW/cm²

FREQUENCY RESPONSE

- Sensor taking into account the typical CAL factor :
± 2.4dB (50MHz to 1.9 GHz)
± 1.0 dB (1.9 GHz to 3.5 GHz)
- Isotropy deviation : Typically ±1.0 dB (f2.45 GHz)
- Overload Limit : 32μW/cm² (11.00V/m)
- Overload Limit : (0 to 50°) : ± 0.2 dB

POWER : 9V (6F22) x 1

Dimension	: H195x W60 x D60 mm
Weight	: Approx 200 gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box



High-precision Sensor



Data Hold / 3 Colour Backlight



Fast Measurement



Buzzer Alarm



Multiple measurement mode selection



Automatic Shutdown

3 IN 1

mW/m²
HIGH-FREQUENCY MEASUREMENT

mG
MAGNETIC FIELD MEASUREMENT

uT
ELECTRIC FIELD MEASUREMENT

V/m
ELECTRIC FIELD MEASUREMENT

FEATURES :

- HIGH - FREQUENCY MEASUREMENT
- MAGNETIC FIELD MEASUREMENTS
- ELECTRIC FIELD MEASUREMENT
- DATA HOLD
- HIGH PRECISION SENSOR
- MULTIPLE MEASUREMENTS MODE
- BUZZER ALARM
- AUTO POWER OFF
- 3 COLOUR BACKLIGHT



FUNCTION	MAGNETIC	ELECTRIC	RF
AXIS	3 axis	1 axis	1 axis
MEASURING	0.01~200.0uT / 0.1~2000mG	1~2000 V/m	0.001~100.0mW/m ²
RANGE	20uT / 200uT 200mG / 2000mG	2000 V/m	2/20/100mW/m ²
RESOLUTION	0.1 / 0.1uT 0.1 / 1 mG	1 V/m	0.001/0.01/0.1mW/m ²
FREQUENCY	30~1000Hz	30~1000 Hz	50 MHz~3.5GHz
ALARM	Sound and light (Green, Orange and Red) alarm exceeding the built-in threshold		
AUTO POWER OFF	Approx 15 minutes		
USE ENVIRONMENT	0-40°C / 40-80% RH		
POWER SUPPLY	3 x 1.5V AAA BATTERIES (The battery is not include in the product)		
PRODUCT SIZE	142 x 58 x 28 mm		
PRODUCT WEIGHT	125g		
SAFETY RANGE	EN61326-1		



FEATURES :

- X-RAYS, Y-RAYS, β -RAYS DETECTION
- NUCLEAR WASTEWATER DETECTION
- MEDICAL NUCLEAR RADIATION
- INDUSTRIAL NUCLEAR RADIATION
- FOOD NUCLEAR RADIATION
- DATA HOLD
- LOW BATTERY INDICATION
- MAX / AVG / ACCUMULATED VALUE
- AUTO POWER OFF

SPECIFICATION :

DETECTOR	Energy Compensation GM Tube (Geiger Counter Meter)
DOSE EQUIVALENT RATE	0.00~50000 μ Sv/h (50mSv/h)
CUMULATIVE DOSE EQUIVALENT	0.00~Sv5000mSv
ENERGY RANGE	48keV-1.5MeV \leq \pm 30% (for 137Cs-)
SENSITIVITY	80CPM/ μ Sv
REAL TIME ACCURACY	\leq \pm 15% (100 μ Sv/h below)
	\leq \pm 20% (100 μ Sv/h above and 1000 μ Sv/h below)
	\leq \pm 25% (100 μ Sv/h above)
UNIT SWITCHING	μ Sv/h, mR/h, cps, cpm
BACKLIGHT ALARM	Green / Red
BUZZER ALARM	<input checked="" type="checkbox"/>
BUZZER ON/OFF	<input checked="" type="checkbox"/>
STN DISPLAY SCREEN	<input checked="" type="checkbox"/>
POWER SUPPLY	1.5V AAA x 3
PRODUCT SIZE IN MM	H142 x W58 x D28
SAFETY RANGE	EN61326-1

NUCLEAR RADIATION HAZARD

Damage to human body and possible symptoms



CATARACT



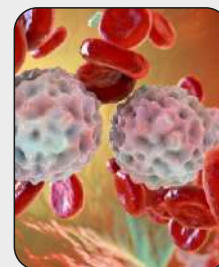
LUNG PROBLEM



ALOPECIA



SKIN DISEASE



LEUKEMIA



THYROID PROBLEM



FEATURES :

- LCD DISPLAY
- DATA HOLD
- THREE HOLE SOCKET LINE SEQUENCE DETECTION
- PHASE VOLTAGE (L_N) MEASUREMENT
- LEAKAGE VOLTAGE (N_E) MEASUREMENT
- RCD (OF GFCI) TEST
- SOCKET SEQUENCE TEST
- AUTOMATIC SHUTDOWN FUNCTION
- TO DETECT WIRING ERROR
- TRIP TIME TEST

RCD I_{Δn}>30mA



AC Voltage



Back light



Detect wiring Error



Three hole socket line sequence detection



Leakage Trip Detection



Two colour backlight



300V

SPECIFICATION	RANGE
VOLTAGE RANGE	AC 30~260V / 45~65Hz $\pm(3.0\%+2)$
LEAKAGE VOLTAGE RANGE	0~99V/45~65Hz, $\pm(2.0\%+2)$
TRIP TIME TEST	20~1000mS $\pm(1.0\%+4)$
RCD TEST	>30mA
VOLTAGE MEASUREMENT	48V~250V/45~65Hz
SOCKET CONNECTION DETECTION	Correct Connection
	Open Ground
	Open Neutral
	Open Live
	Live Wire and Ground Wire Reverse
	Live Wire and Neutral Wire Reverse
	Live Wire and Ground Wire Reverse Missing ground wire
SIZE	H67 x W65 x D61 mm
POWER	DC1.5V x 2AAA



FEATURES :

- MEASURES AIR TEMPERATURE
- MEASURES WET BULB GLOBE TEMPERATURE (HEAT STROKE INDEX)
- MEASURES HUMIDITY
- LIGHT WEIGHT / PORTABLE
- WORN ON ARM WITH ADJUSTABLE ARM STRAP
- AVOIDS POSSIBLE THERMAL INJURES & DANGERS
- SIMULTANEOUS DISPLAY OF WBGT, TEMPERATURE & RH
- OUTDOOR & INDOOR HEAT STROKES MEASUREMENT
- PROGRAMMABLE BUZZER & RED LED WARNINGS
- AUDIBLE ALARM (ADJUSTABLE VOLUME 75DB / 65DB / MUTE)
- 4 LEVEL DANGER LEVEL INDICATOR
- READING EVERY 20 SECONDS
- MEASURES HEAT INDEX (WBGT) AS SUGGESTED BY STANDARD ISO 7243
 - OSHA (US OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION)
 - SMA (SPORT MEDICINE AUSTRALIA) &
 - JAPAN SOCIETY FOR OCCUPATIONAL HEALTH MECHANISM
- METER NOT TO BE AFFECTED BY HUMAN TEMPERATURE WHEN WORN



WBGT Temp.



Low Battery Indication



Temperature



Buzzer

SPECIFICATION :

TEMPERATURE (TG)

RANGE	RESOLUTION	ACCURACY
0~50°C/32~122°F	0.1°C/0.1°F	20~40°C/68~104°F; ±0.6°C/1.1°F, Others : ±1.0°C/1.8°F

BLACK BALL TEMP. (TG)

RANGE	RESOLUTION	ACCURACY
0~80°C/32~176°F	0.1°C/0.1°F	20~60°C/68~140°F; ±0.6°C/1.1°F, Others : ±1.0°C/1.8°F

RELATIVE HUMIDITY (RH)

RANGE	RESOLUTION	ACCURACY
20~90%RH	0.1RH	30~80%RH:5%RH Others ±10.0RH

HEAT STROKE INDEX (WBGT)

RANGE	RESOLUTION	ACCURACY
0~50°C/32~122°F	0.1°C/0.1°F	±0.2°C/3.6°F,

SENSOR	TEMPERATURE	DIGITAL SENSOR
	RELATIVE HUMIDITY	DIGITAL SENSOR
	BLACK BALL TEMP	THERMAL SENSITIVE
WBGT TEMP	IN (Indor) OUT (Outdoor)	
SAMPLING UPDATE	1 time / 20 seconds	
BATTER LIFE	about 6 Months	

POWER : AAA 1.5V x 2

Dimension	: H117 x W59 x D45 mm
Weight	: Approx. 95Gsm. Including Battery
Accessories	: Manual & Battery.



- 
Max Value Retention
- 
Range : 200mT-2000mT
- 
Over Range Display
- 
Adjustable Back light
- 
Strong Anti-interference
- 
Automatic Range
- 
Low Battery Indication

FEATURES :

- 4 DIGIT DISPLAY
- MEASURES MAGNETIC FIELD STRENGTH OF MAGNETIC MATERIALS
- SCOPE : MAX CALIBRATION FIELD 2400MT
- BACKLIGHT ADJUSTABLE
- HALL PROBE INTERFACE
- TRANSVERSE PROBE
- AUTOMATIC RANGE
- MEASURES IN mT / GS
- MAX VALUE RETENTION
- STRONG ANTI-INTERFERENCE ABILITY
- AUTOMATIC SHUT DOWN
- LIGHT WEIGHT

The LCD displays parameters as range, polarity, value, unit, battery indicator, percent of range and so on.

TECHNICAL DATA

Range	200 mT	2000 mT
Scope	Maximum calibration field 2400 mT, 24 kilogauss	
Resolution	10 μT	
Accuracy	0~1000 mT: ±2% 1000 mT ~ 2400 mT: ±5%	

BATTERY : 9V (6F22) x 1

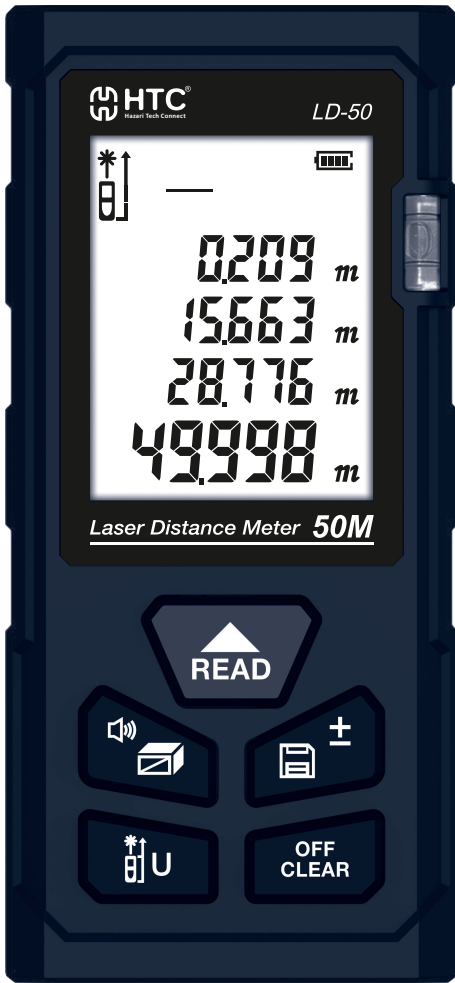
Dimension	: H160 x W80 x D32 mm
Weight	: Approx. 260 Gms.
Accessories	: Meter, Transverse probe with 1 m cable, User Manual & Battery
Qty	: 20 Pcs. in a Box.

LASER DISTANCE METER

LD-50



Performance with Precision



-  Back light
-  Pythagorean Measurement
-  Self Calibration
-  Length Measurement
-  Range 0-50M
-  Area Measurement
-  Auto Power Off
-  Voltage Measurement
-  Single / Continuous Measurement
-  Voice Prompt

FEATURES :

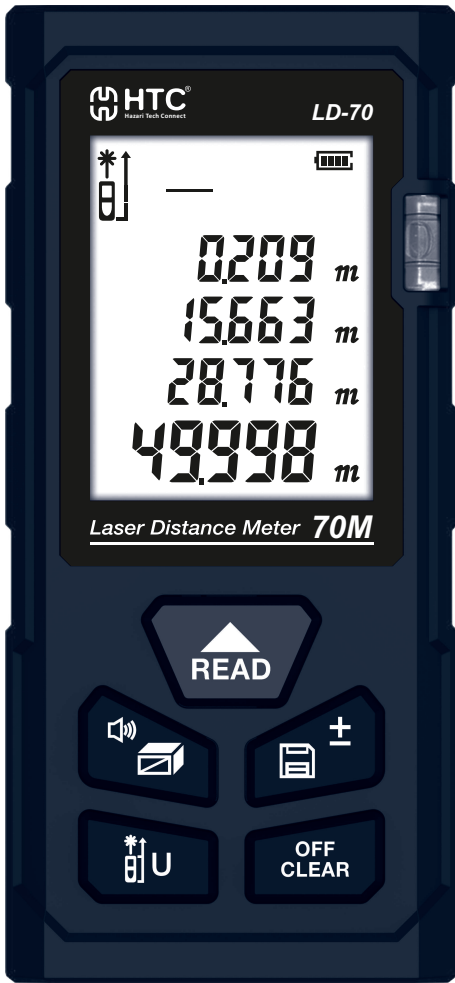
- SELF CALIBRATION
- SINGLE / CONTINUOUS MEASUREMENT
- DATA IS RECORDED AUTOMATICALLY
- 99 RECORDS
- AUTO POWER OFF
- LASER LEVEL- II
- MIN / MAX VALUE
- WORKING RANGE 0.05~50 M
- VOICE PROMPT
- MEASUREMENT MODES
 - LENGTH
 - AREA
 - VOLUME
 - PYTHAGOREAN
 - ADDITION / SUBTRACTION
 - SINGLE MEASUREMENT

SPECIFICATION :

WORKING RANGE	0.05~50m
PRECISION	$\pm(2\text{mm}+d*1/10000)^*$
LASER LEVEL	II
LASER TYPE	630~670nm, <1mW
MAX STORAGE	99 units
AUTOMATICALLY CUT OFF LASER	20s (Single measurement)
AUTO POWER OFF	150s
BATTERY LIFE	4000 / 8000 times Carbon-zinc battery / alkaline battery)

POWER : AAA 1.5V x 2

Dimension	: H108x W50 x D25 mm
Weight	: Approx. 102Gsm. Including Battery
Accessories	: Hand Strap, Velvet Carrying Pouch, Battery & Manual.



-  Back light
-  Pythagorean Measurement
-  Self Calibration
-  Length Measurement
-  Range 0-50M
-  Area Measurement
-  Auto Power Off
-  Voltage Measurement
-  Single / Continuous Measurement
-  Voice Prompt

FEATURES :

- SELF CALIBRATION
- SINGLE / CONTINUOUS MEASUREMENT
- DATA IS RECORDED AUTOMATICALLY
- 99 RECORDS
- AUTO POWER OFF
- LASER LEVEL- II
- MIN / MAX VALUE
- WORKING RANGE 0.05 ~ 70 M
- VOICE PROMPT
- MEASUREMENT MODES
 - LENGTH
 - AREA
 - VOLUME
 - PYTHAGOREAN
 - ADDITION / SUBTRACTION
 - SINGLE MEASUREMENT

SPECIFICATION :

WORKING RANGE	0.05~70m
PRECISION	$\pm(2\text{mm}+d*1/10000)^*$
LASER LEVEL	II
LASER TYPE	630~670nm, <1mW
MAX STORAGE	99 units
AUTOMATICALLY CUT OFF LASER	20s (Single measurement)
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POWER : AAA 1.5V x 2

Dimension	: H108x W50 x D25 mm
Weight	: Approx. 102Gsm. Including Battery
Accessories	: Hand Strap, Velvet Carrying Pouch, Battery & Manual.



Back light



Pythagorean Measurement



Self Calibration



Length Measurement



Range 0-50M



Area Measurement



Auto Power Off



Voltage Measurement



Single / Continuous Measurement



Voice Prompt

FEATURES :

- SELF CALIBRATION
- SINGLE / CONTINUOUS MEASUREMENT
- DATA IS RECORDED AUTOMATICALLY
- 99 RECORDS
- AUTO POWER OFF
- LASER LEVEL- II
- MIN / MAX VALUE
- WORKING RANGE 0.05~ 100 M
- VOICE PROMPT
- MEASUREMENT MODES
 - LENGTH
 - AREA
 - VOLUME
 - PYTHAGOREAN
 - ADDITION / SUBSTRACTION
 - SINGLE MEASUREMENT

SPECIFICATION :

WORKING RANGE	0.05~100m
PRECISION	$\pm(2\text{mm}+d*1/10000)^*$
LASER LEVEL	II
LASER TYPE	630~670nm, <1mW
MAX STORAGE	99 units
AUTOMATICALLY CUT OFF LASER	20s (Single measurement)
AUTO POWER OFF	150s
BATTERY LIFE	4000 / 8000 times Carbon-zinc battery / alkaline battery)

POWER : AAA 1.5V x 2

Dimension	: H108x W50 x D25 mm
Weight	: Approx. 102Gsm. Including Battery
Accessories	: Hand Strap, Velvet Carrying Pouch, Battery & Manual.



Back light



Temp



Low Battery Indication



Wind Speed Simulation Bar



Humidity Unit



Auto Power Off

FEATURES :

- LCD DISPLAY, MAX DISPLAY 9999
- WIND SPEED MEASUREMENT
- DATA HOLD
- MAX/MIN/ AVG
- TEMP. MEASUREMENT VALUE IN °C / °F
- AUTO POWER OFF
- WIND SPEED UNIT SELECTION
- AIR VELOCITY :
0.70~ 30.00 m/s
- SENSOR :
Air velocity sensor : Angled vane arms with bearing

TECHNICAL DATA :

AIR VELOCITY MEASUREMENT	RANGE	RESOLUTION	ACCURACY
m/s	0.70~30.00	0.01	<1.00m/s : ±0.7m/s 1.00~30.00m/s : ±(2.0%+0.5m/s)
km/h	2.50~108.0	0.01~0.1	
ft/s	2.30~98.50	0.01	
ft/m	137.0~5900	0.1~1	
knots	1.30~58.30	0.01	
mil/h	1.50~67.10	0.01	
TEMPERATURE	°C-20.0°~60.0°C	1.0°C	0.0°C ~ 45.0°C ±1.0°C others ±1.5°C
	-4.0°~140.0°F	1.0°F	32°F ~ 113°F ±2.0°F others ±3.0°F
HUMIDITY	0.0% ~ 99.9 % RH	0.1%RH	20%~80% ±5.0% RH others ±6.0% RH

Auto Power off in 10 Mins.

POWER : AAA 1.5 x 3

Dimension	: H138 x W56 x D25 mm
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 50 Pcs. in a Box.



FEATURES :

- FAST & RELIABLE DETECTION OF FLAMMABLE GAS LEAKAGE
- HIGH-PRECISION TEMPERATURE & HUMIDITY SENSOR
- 3 SELECTABLE SENSITIVITY : HIGH / MEDIUM / LOW
- BUZZER ALARM CONTROL
- TEMPERATURE CAN BE MEASURED IN C° / F°
- AUTO POWER OFF

TECHNICAL SPECIFICATION

SENSOR TYPE	Gas-Sensitive Semi-Conductor
RESPONSE RANGE	about 50 PPM~1000 PPM (Methane)
SENSITIVITY	>50 PPM (Methane)
TEST GAS	Acetone, Acetylene, Alcohol, Ammonia, benzene, butane, ethanol, oxirane, gasoline, hexane, hydrogen, methane, naphtha, natural gas, paint thinners, propane, solvents, etc
RESPONSE RANGE	About 50ppm~1000ppm (Methane)
ALARM MODE	Buzzer & Indicator light
TEMPERATURE RANGE	-20°~60°C (-4°F~140°F)
RESOLUTION	0.1°C / 1°F
ACCURACY	0.°C ~ 45°C ± 2.0°C others ±1.5°C 32°F ~ 113°F ± 4°F others ± 3°F
HUMIDITY	0.0% ~ 99.9% RH
RESOLUTION	0.1%RH
ACCURACY	20%~80% ±5.0% RH others ± 6.0% RH
PRECISION	0°C~45°C

POWER : AAA 1.5 x 3

Dimension	: H142 x W58 x D28mm
Weight	: Approx. Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 50 Pcs. in a Box.

MINI HYGROMETER

HD-303

TEMPERATURE & HUMIDITY METER



Back light



Temp



Ambient Humidity



Humidity Unit



Low Battery Indication



Dew Point Temperature



Wet Bulb Temperature



MAX / MIN Value



Data Hold



Auto Power Off

FEATURES :

- DATA HOLD
- MAX/MIN VALUE
- BACK LIGHT
- DEW POINT
- AUTO POWER OFF
- COMPACT, EASY TO CARRY
- WET BULB TEMPERATURE MEASUREMENT
- MEASURES RELATIVE HUMIDITY
- MEASURES TEMPERATURE IN °C / °F

TECHNICAL DATA :

BASIC FUNCTION	RANGE	RESOLUTION	ACCURACY
HUMIDITY	0.0% ~ 99.9 % RH	0.1%RH	20%~80% ±3.0% RH others ±4.0% RH
TEMPERATURE	°C-20.0°~60.0°C	0.1°C	0.0°C ~ 45.0°C ±1.5°C others ±1.5°C
	-4.0°~140.0°F	1°F	
WET BULB TEMPERATURE	-20.0°~60.0°C	0.1°C	
	-4.0°~140.0°F	1°F	
DEW POINT TEMPERATURE	-50.0°~60.0°C	0.1°C	32°F ~ 113°F ±2.0°F others ±3.0°F
	-58.0°~140.0°F	1°F	

POWER : AAA 1.5 x 3

Dimension	: H138 x W56 x D25 mm
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 50 Pcs. in a Box.



Back light



Temp



Data Hold



Humidity Unit



MAX/MIN Function



Unit Selection



Low Battery Indication



Auto Power Off

FEATURES :

- DATA HOLD
- MAX/MIN VALUE
- LUX / FC MEASUREMENT
- SPECTRAL RANGE : 320~730 NM
- AUTO POWER OFF
- TEMPERATURE MEASURED IN °C / °F
- COMPACT DESIGN, EASY PORTABLE
- VISIBLE LIGHT EMITTED BY FLUORESCENT LAMP, METAL HALIDE LAMP, HIGH VOLTAGE SODIUM LAMP OR INCANDESCENT LAMP BE MEASURED

TECHNICAL SPECIFICATION

RANGE	LUX	1000, 10000, 200000
	FC	100, 1000, 20000
RESOLUTION	10 LUX / 1 FC	
ACCURACY	(3.0% + 5 dgts) at 2854 K incandescent lamp Cosine angle deviation Characteristics : 30°±2%, 60° ±6%, 80°±25%	
SENSOR	Silicon Photo-diode and Spectral response filter	
SAMPLING RATE	Approx 2 times per second	
SPECTRAL RANGE	320~730 nm	
AUTO POWER OFF	10 minutes	
TEMPERATURE RANGE	-20°~60°C / -4°F~140°F	
RESOLUTION	0.1°C / 1°F	
ACCURACY	0.°C ~ 45°C ± 1.0°C others ±1.5°C 32°F ~ 113°F ± 2°F others ± 3°F	
HUMIDITY	0.0% ~ 99.9% RH	
RESOLUTION	0.1%RH	
ACCURACY	20%~80% ±5.0% RH others ± 6.0% RH	

*One **LUX** is the light received on the surface of a candle with a verticle intensity of 1 meters and an area of 1 squaremeters.

*One **FC** is the light received on the surface of a 1 inch square foot at a distance of 1 feet from a candle with a light intensity.

POWER : AAA 1.5 x 3

Dimension	: H138 x W56 x D25 mm
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 50 Pcs. in a Box.



Back light



Data Hold



MAX / MIN Function



Ambient Humidity



Auto Power Off



Low Battery Indication

FEATURES :

- SINGLE POINT MEASUREMENT
- MULTI POINT AVERAGE MEASUREMENT
- DATA HOLD
- MAX / MIN VALUE
- AUTO POWER OFF
- AMBIENT TEMPERATURE MEASUREMENT
- ENVIRONMENT HUMIDITY MEASUREMENT
- MEASURES TEMPERATURE IN °C / °F
- MEASURES MOISTURE CONTENT OF WOOD / BUILDING MATERIAL
- BUILT IN CHARACTERISTIC OF 7 DIFFERENT KIND OF WOOD AND BUILDING MATERIAL

RED, ORANGE, GREEN TRICOLOUR BACK LIGHT

Automatically match the appropriate colour backlight according to the moisture content :

RED BACKLIGHT :

High moisture content, showing the letter W

ORANGE BACKLIGHT :

Moderate moisture content, showing the letter M

GREEN BACKLIGHT :

Low moisture content, showing the letter D

TECHNICAL SPECIFICATION

MOISTURE RANGE	Material A : 9.0%~57.0%±2.0%
	Material B : 7.0%~52.0%±2.0%
	Material C : 0.9%~23.0%±2.0%
	Material D : 0.0%~12.0%±2.0%
	Material E : 0.7%~9.0%±2.0%
	Material F : 0.5%~10.0%±2.0%
	Material G : 0.0%~17.0%±2.0%
ACCURACY	±2.0%
TEMPERATURE RANGE	-20°~60°C / -4°F~140°F
RESOLUTION	0.1°C / 1°F
ACCURACY	0.°C ~ 45°C ± 1.0°C others ±1.5°C 32°F ~ 113°F ± 2°F others ± 3°F
HUMIDITY	0.0% ~ 99.9% RH
RESOLUTION	0.1%RH
ACCURACY	20%~80% ±5.0% RH others ± 6.0% RH
Auto power off after 10 Mins. If necessary you can cancel the APO function.	

POWER : AAA 1.5 x 3

Dimension	: H138 x W56 x D25mm
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 50 Pcs. in a Box.



Back light



Temperature



Humidity Unit



Data Hold



Max / Min Measurement



Fast / Slow Time Weighted



Low Battery Indication



Auto Power Off

FEATURES :

- DATA HOLD
- MAX/MIN VALUE
- BACK LIGHT
- FAST / SLOW TIME WEIGHTED SELECTION
- TEMPERATURE UNIT SELECTION
- AUTO POWER OFF
- MEASURES SOUND LEVEL OF THE ENVIRONMENT
- MEASURES TEMPERATURE & RELATIVE HUMIDITY

TECHNICAL SPECIFICATION

RANGE	30~130dBA
RESOLUTION	0.1 dBA
ACCURACY	± 1.5dB(94dB@1KHz) ± 5dB(94dB@8KHz)
FREQUENCY	30Hz ~ 8KHz
DYNAMIC RANGE	50dB
TIME WEIGHTING	FAST : 125 ms, SLOW : 1 Sec.
MICROPHONE	Electret condenser
TEMPERATURE RANGE	-20°~60°C / -4°F~140°F
RESOLUTION	0.1°C / 1°F
ACCURACY	0.°C ~ 45°C ± 1.0°C others ±1.5°C 32°F ~ 113°F ± 2°F others ± 3°F
HUMIDITY	0.0% ~ 99.9% RH
RESOLUTION	0.1%RH
ACCURACY	20%~80% ±5.0% RH others ± 6.0% RH

POWER : AAA 1.5 x 3

Dimension	: H142 x W58 x D28 mm
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 50 Pcs. in a Box.



FEATURES :

- CLAMP SIZE 68 MM
- 2.4 INCH TFT COLOUR LCD DISPLAY
- AUTO POWER OFF
- SHOCK PROOF, DUST PROOF AND MOISTURE PROOF STRUCTURE
- GROUND RESISTANCE, LOOP RESISTANCE, AC CURRENT AND AC VOLTAGE TEST
- 500 GROUPS OF DATA STORAGE
- USB DATA UPLOAD FUNCTION
- SPARE 1 & 10 TEST RING TO DETECT SELF PROTECTION
- CLAMP RESISTANCE MEASURES
- 3-4 WIRE RESISTANCE
- SOIL RESISTIVITY MEASUREMENT

RESISTANCE (CLAMP METHOD)

RANGE	RESOLUTION	ACCURACY
0.02Ω~9.99Ω	0.01Ω	±2% rdg ± 0.1Ω
10.0Ω~99.9Ω	0.5Ω	±3% rdg ± 0.5Ω
100Ω~199Ω	1Ω	±5% rdg ± 1Ω
200Ω~299Ω	5Ω	±10% rdg ± 5Ω
300Ω~699Ω	10Ω	±15% rdg ± 10Ω
700Ω~999Ω	20Ω	±20% rdg ± 20Ω
1.00KΩ~1.99KΩ	30Ω	±25% rdg ± 30Ω
1.20KΩ~2.00KΩ	50Ω	±35% rdg ± 50Ω

SOIL RESISTIVITY

RANGE	RESOLUTION	ACCURACY
0.00Ωm~99.99Ωm	0.01Ωm	p=2πraR (note1)
100.0Ωm~999.9Ωm	0.1Ωm	
1000Ωm~9999Ωm	1Ωm	
10.00kΩm~99.99kΩm	10Ωm	
100.0kΩm~999.9kΩm	100Ωm	
1000kΩm~9999kΩm	1kΩm	

Power Supply :
DC 3.7V Lithium Battery

AC CURRENT

RANGE	RESOLUTION	ACCURACY
0.100mA~0.999mA	0.001mA	±2.5% rdg ± 0.1mA
1.00mA~9.99mA	0.01mA	±2.5% rdg ± 0.5mA
10.0mA~99.9mA	0.1mA	±2.5% rdg ± 1mA
0.100A~0.999A	0.001A	±2.5% rdg ± 0.1A
1.00A~9.99A	0.01A	±2.5% rdg ± 0.5A
10.0A~60.0A	0.1A	±2.5% rdg ± 1A

THREE OR FOUR WIRE METHOD

RANGE	RESOLUTION	ACCURACY
0.01Ω~9.99Ω	0.01Ω	±2% rdg ± 0.2Ω
10.0Ω~99.9Ω	0.1Ω	±2% rdg ± 1Ω
100Ω~999Ω	1Ω	±2% rdg ± 15Ω
1.00kΩ~9.99kΩ	0.01kΩ	±2% rdg ± 1KΩ
10.0kΩ~30.0kΩ	0.1kΩ	±3% rdg ± 0.5Ω

SELECTION METHOD

RANGE	RESOLUTION	ACCURACY
0.30Ω~9.99Ω	0.01Ω	±2% rdg ± 0.3Ω
10.0Ω~99.9Ω	0.1Ω	±2% rdg ± 1Ω
100Ω~999Ω	1Ω	±2.5% rdg ± 15Ω
1.00kΩ~3.00kΩ	0.01kΩ	±3% rdg ± 1KΩ

GROUND VOLTAGE

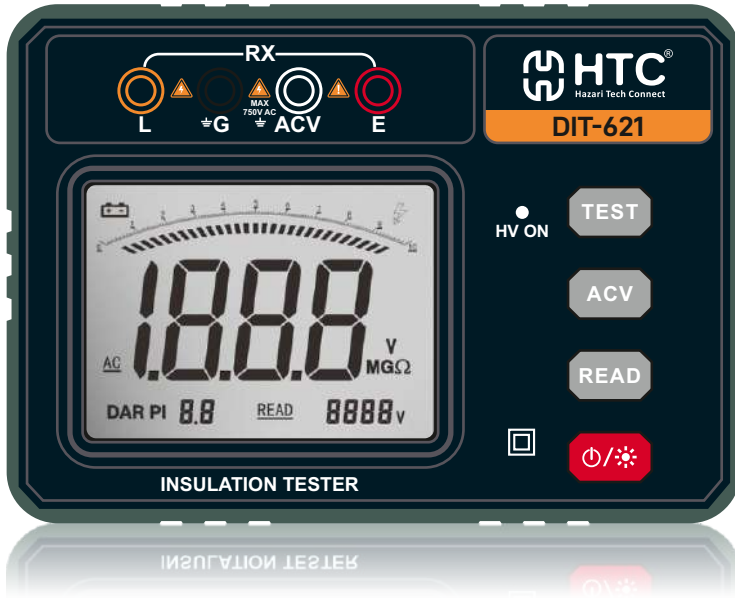
RANGE	RESOLUTION	ACCURACY
1.00V~9.99V	0.01V	±2.5% rdg ± 0.1V
10.0V~99.9V	0.1V	±2.5% rdg ± 1V
100V~600V	1V	±2.5% rdg ± 5V

Dimension :
H273 x W106 x D53 mm

Weight :
Approx. 975g.

Accessories
user Manual,
Meter,
Test Line 4 Pcs.,
Simple Test Line 2 Pcs.,
USB Comm. Line,
Charger,
Software CD,
Instrument Box

Qty : 5 Pcs in a Box.



FEATURES :

- THE RATED VOLTAGE ACCORDING TO THE TEST REQUIREMENTS: BETWEEN 50V/100V/200V/300V/400V/500V/600V/700V/800V/900V/1000V
- MAXIMUM DISPLAY : 3½ DIGITS / 1999
- 100 SETS OF DATA STORAGE
- ABSORPTION RATIO
- POLARIZATION INDEX
- AUTOMATIC RANGE
- AUTOMATIC DISCHARGE
- TEST VOLTAGE DISPLAY
- MEASUREMENT TIME DISPLAY
- SHORT CIRCUIT CURRENT
- INSULATION RESISTANCE
- VOLTAGE WITHSTAND
- LOW / HIGH VOLTAGE INDICATION
- RESISTANCE MEASUREMENT RANGE :1MΩ—20GΩ
- AC VOLTAGE 30V-750V
- FREQUENCY OF AC VOLTAGE IS 40Hz-70Hz
- COMPLETE PROTECTED CIRCUIT
- DUST PROOF, WATER RESISTANCE



Back Light



High Voltage Indication



Short Circuit Protection



100 Sets of Data Storage



Digital Bargraph Display



Easy to Carry



AC Voltage



Low Battery Indication



Over Range Display

TECHNICAL DATA

OUTPUT VOLTAGE	90%~110% (OUTPUT LOAD ≥1000M)
SHORT CIRCUIT CURRENT	≥1.5MA
INSULATION RESISTANCE	≥500MΩ(1000V)
VOLTAGE WITHSTAND	AC 2KV 50HZ 1MINUTE;

Output Voltage ± (10%)

50V / 100V / 200V / 300V / 400V / 500V / 600V / 700V / 800V / 900V / 1000V

OUTPUT VOLTAGE	RANGE	ACCURACY	SHORT CIRCUIT CURRENT
50V/200V	1MΩ-500MΩ	±(8%+5)	1.5mA
300V-500V	1MΩ-10GΩ	±(8%+5)	
600V-1000V	1MΩ-20GΩ	±(10%+5)	
AC Voltage Measurement	30-750V	±(2%+5)	-

BATTERY : AA 1.5 x 6

Dimension	: H123 x W173 x D55 mm
Weight	: Approx. 600 Gms.
Accessories	: Hard Carry Case, Sling, , Iron Substrate, Aluminium Substrate, Calibration Film, Manual



FEATURES :

- 3½ DIGIT, 20 MM LCD
- 1,999 COUNTS
- BACKLIGHT
- MEASUREMENT RATE : 2.5 MEASUREMENT PER SECOND
- INSULATION RESISTANCE : MORE THAN 50MΩ AT 500V BETWEEN CIRCUIT AND CASE
- DIELECTRIC STRENGTH: 3.5kV @ 50Hz FOR 1 MIN. BETWEEN INPUT TERMINALS AND CASE.
- HIGH VOLTAGE LED WARNING INDICATOR
- OVER RANGE DISPLAY
- ACCURACY: + (3% RDG + 2DGT) ACCURACY SPECIFICATIONS AT 23 + 5°C, LESS THAN 75% RH



Counts



Easy to Carry



Backlight



Large LCD



CAT II 1000V



Insulation Resistance



Low Battery Indication



Red LED indicator for High Voltage Warning



Over Range Display

SPECIFICATION

MODEL	DIT-90A	DIT-90B	DIT-90C
RATED VOLTAGE	500/1000V	500/1000V	500/100V
RANGE MAX	2000 MΩ	200 MΩ	200 MΩ
RESOLUTION	1 MΩ	0.1 MΩ	1 MΩ
MAX NO. LOAD VOLTAGE	±25% of rated voltage		
SHORT CIRCUIT CURRENT ACCURACY	<2mA ±(3%rdg +2 dgt)		

BATTERY : AA 1.5V x 6

Dimension	: H139 x W99 x D54 mm
Weight	: Approx. 395 Gms.
Accessories	: Test Leads, Battery, User Manual



- 1999
Counts
- OL
Over Range Display
- Portable
- Earth Resistance Measurement
- CAT III
200V

FEATURES :

- MEASURE EARTH VOLTAGE AND PERMITS EARTH RESISTANCE TEST
- 3½ DIGIT
- 1,999 COUNT
- LCD DISPLAY
- EXTERNAL INPUT TERMINAL
- PORTABLE
- LOW BATTERY INDICATION
- OVER RANGE INDICATION

EARTH RESISTANCE RANGE	RESOLUTION	ACCURACY
0~10 OHMS	0.01 OHMS	± (2%rdg ± 5 digits) or ± 0.1Ω, which is greater
0~1000 OHMS	1 OHMS	

POWER :
14500 RECHARGEABLE BATTERY x 4 PCS

SAFETY STANDARD :
IEC 1010-1 (EN61010-1)

Dimension	: H163 x W100 x D50 mm
Weight	: Approx. 410 Gms.
Accessories	: Soft Carrying Case, Calibration Certificate, 14500 Rechargeable Battery x 4 Pcs. 18V Adaptor, Instruction Manual
Qty	: 32 Pcs. in a Box.



DC Current



Resistance



Over Range Display



Low Battery Indication



Auto Power Off



Alarm



Data Hold



300V

FEATURES :

- AUTOMATICALLY IDENTIFY INTERFERENCE SIGNALS, AND THE "NOISE" SYMBOL INDICATES WHEN THE INTERFERENCE CURRENT IS LARGE
- CLAMP GROUND RESISTANCE TESTER, RESISTANCE TESTER, LEAKAGE CURRENT TESTER
- 4 DIGIT, LCD DISPLAY
- 9,999 COUNT
- JAW SIZE : 55mm x 32mm
- DATA LOGGING SYSTEM 300 GROUPS MEMORY, REVIEW DATA
- MEASURE 2 TIMES / SEC.
- DOUBLE INSULATION PROTECTION
- SPARE 1 & 10 TEST RING, TO DETECT SELF PRECISION
- MULTI POINT / LIMITED POINT / SINGLE POINT GROUNDING SYSTEM
- SHOCK-PROOF, DUST-PROOF AND MOISTURE-PROOF STRUCTURE
- USES MUTUAL INDUCTANCE MEASUREMENT METHOD

MODEL	RESISTANCE RANGE	CURRENT RANGE
CE-8200	0~1000Ω	NA
CE-8202	0~1200Ω	0.00mA~20A
CE-8203	0~200Ω	NA

RESISTANCE

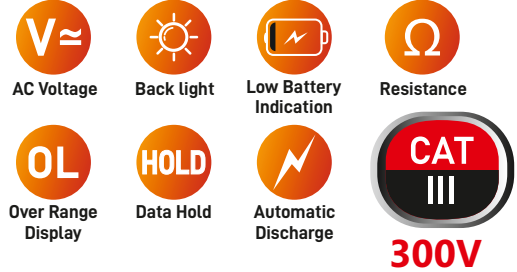
RANGE	RESOLUTION	ACCURACY
0.010Ω~0.099Ω	0.001Ω	±(1% + 0.01Ω)
0.10Ω~0.99Ω	0.01Ω	±(1% + 0.01Ω)
1.0Ω~49.9Ω	0.1Ω	±(1% + 0.01Ω)
50.0Ω~99.5Ω	0.5Ω	±(1.5% + 0.5Ω)
100Ω~199Ω	1Ω	±(2% + 1Ω)
200Ω~395Ω	5Ω	±(5% + 5Ω)
400Ω~590Ω	10Ω	±(10% + 10Ω)
600Ω~880Ω	20Ω	±(20% + 20Ω)
900Ω~1200Ω	30Ω	±(25% + 30Ω)

CURRENT

RANGE	RESOLUTION	ACCURACY
0.00mA~9.95mA	0.01mA	±(2.5% + 1mA)
10.0mA~99.0mA	0.1mA	±(2.5% + 5mA)
100mA~300mA	1mA	±(2.5% + 10mA)
0.30A~2.99A	0.01A	±(2.5% + 0.1A)
3.0A~9.9A	0.1A	±(2.5% + 0.3A)
10.0A~20.0A	0.1A	±(2.5% + 0.5A)

POWER : DC 6V (AA 1.5 x 4) DRY BATTERIE

Dimension	: H285 x W85 x D58 mm
Weight	: Approx. 290 Gms.
Accessories	: Check Ring, Manual, Warranty Card, Battery & Hard Carry Case
Qty	: 5 Pcs. in a Box.



FEATURES :

- 3½ DIGITAL LCD DISPLAY
- 1,999 COUNT
- DATA HOLD
- AUTOMATICALLY CONVERT RANGE (INSULATION TEST)
- AUTOMATIC ZERO
- PHASE SEQUENCE TEST
- PERFECT PROTECTION CIRCUIT
- LOW POWER CONSUMING CMOS DUAL INTEGRAL A/D CONVERSION I/C

INSULATION RESISTANCE

TESTING VOLTAGE	OUTPUT VOLTAGE	RANGE	RESOLUTION	ACCURACY
1000V	90%-110% of the test value	0.1 MΩ-200GΩ	0.01 MΩ	0.1 MΩ-200MΩ ±(3% rdg+5 dgt)
2500V				200 MΩ-10GΩ ±(5% rdg+10 dgt)
5000V				10GΩ-200GΩ ±(5% rdg+10 dgt)

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
0-600V	1V	±(2% rdg+5 dgt)

PHASE VOLTAGE RANGE TEST :
100V-450V

FREQUENCY TEST :
40-60Hz

POWER : 1.5V AA X 8

Dimension	: H190 x W155 x D75 mm
Weight	: Approx. 900 g.
Accessories	: Manual, Toolbox, Phase sequence test wire set Insulation resistance test wire set AC/DC adaptor & Battery



FEATURES :

- 5K V DIGITAL INSULATION TESTER
- LATEST TECHNOLOGY, WHICH IS COMPACT, FIRM, DURABLE
- USER FRIENDLY FEATURES
- HIGH RELIABILITY, STABILITY, ACCURACY 3½ LCD DISPLAY, 1999 COUNT
- DATA RETENTION FUNCTION WITH SYMBOL
- LOW POWER CONSUMING CMOS DUAL INTEGRAL A/D CONVERSION I/C
- AUTOMATICALLY CONVERT RANGE (INSULATION TEST)
- AUTOMATIC ZERO
- PERFECT PROTECTION CIRCUIT
- TEST VOLTAGE 100V / 250V / 500V / 1000V 2500 V / 5000V
- RANGE 0.1 MΩ-20G TO 0.1 MΩ-200G, AUTO RANGE



Back light



Low Battery Indication



Over Range Display



Data Hold



Automatic Discharge

INSULATION RESISTANCE

TESTING VOLTAGE	OUTPUT VOLTAGE	RANGE	RESOLUTION	ACCURACY
100V	90%-110% of the test value	0.1 MΩ-20G	0.01 MΩ	0.1 MΩ-200MΩ ±(3% rdg+5 dgt)
250V				200 MΩ-10GΩ ±(5% rdg+10 dgt)
500V				10GΩ-200GΩ ±(10% rdg+5 dgt)
1000V		0.1 MΩ-200G		0.1 MΩ-200MΩ ±(3% rdg+5 dgt)
2500V				200 MΩ-10GΩ ±(5% rdg+10 dgt)
5000V				10GΩ-200GΩ ±(10% rdg+5 dgt)

POWER : 1.5V (R6AA) x 8

Dimension	: H190 x W155 x D75 mm
Weight	: Approx. 900 g.
Accessories	: Manual, Toolbox 1 Set of test wire & Battery
Qty	: 6 Pcs. in a Box.



FEATURES :

- ANALOG BAR GRAPH
- LARGE LCD DISPLAY SCREEN
- 9,999 COUNT
- AUTO POWER OFF
- DATA LOGGING & RECALL 18 SETS
- POLARIZATION INDEX (PI) MEASUREMENT
- DIELECTRIC ABSORPTION (DAR)
- AUTO RANGING
- USB INTERFACE
- DATA STORAGE
- COMPARISON OF INSULATION MEASUREMENT
- CONTINUOUS OPTIMIZE MEASUREMENT OPTION
- OPTION INSULATION RESISTANCE



INSULATION RESISTANCE MEASUREMENT

OUTPUT VOLTAGE	DISPLAY RANGE	OPEN CIRCUIT VOLTAGE	TEST RANGE	ACCURACY	SHORT CIRCUIT
500V	0.0MΩ~20GΩ	DC 500V 0%~+20%	1mA-1.2mA@500kΩ	0.0MΩ~99.9MΩ ±(3%+5)	Maximum than 2.0mA
				100MΩ~9.99GΩ ±(5%+5)	
				10.0GΩ~ 20.0GΩ ±(10%+5)	
1000V	0.0MΩ~40GΩ	DC 1000V 0%~+20%	1mA-1.2mA@1MΩ	0.0MΩ~99.9MΩ ±(3%+5)	
				100MΩ~9.99GΩ ±(5%+5)	
				10.0GΩ~ 40.0GΩ ±(10%+5)	
2500V	0.0MΩ~100GΩ	DC 2500V 0%~+20%	1mA-1.2mA@2.5MΩ	0.0MΩ~99.9MΩ ±(3%+5)	
				100MΩ~9.99GΩ ±(5%+5)	
				10.0GΩ~ 100.0GΩ ±(10%+5)	
5000V	0.0MΩ~1000GΩ	DC 5000V 0%~+20%	1mA-1.2mA@5MΩ	0.0MΩ~99.9MΩ ±(3%+5)	
				100MΩ~9.99GΩ ±(5%+5)	
				10.0GΩ~ 99.9GΩ ±(10%+5)	
				Above 100GΩ [±(20%+5) humidity : below 50%]	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
30V~600V 50/60 (Hz)	1V	±2% of rdg ±3 digits

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
±30~±600V	1V	±2% of rdg ±3 digits

POWER : 1.5V (LR 14) x 8

Dimension	: H202 x W155 x D94 mm
Weight	: Approx. 2 Kg.
Accessories	: One plug test lead to one alligator clip Black, One plug test lead to one alligator clip Green, Two plug test lead to one alligator clip Red, USB Interface Cable, Charger, Software CD, Power Adaptor, Tool Box, Manual & Battery.
Qty	: 4 Pc. in a Box.



AC/DC Voltage



Alarm



DC Current



Data Storage



Capacitance



Shock Proof



Resistance



Backlight



Insulation Resistance



Over Range Display



Auto Power Off



300V

DIGITAL INSULATION

RESISTANCE METER consists of medium and large scale integrated circuits. The output power of the watch is large and the output voltage level is a lot (with 6 voltage levels). DC voltage measurement range is 0~1000V, AC voltage measures range as 0~750V. DC current measurement range is 100pA~6mA. Capacitance measurement range is 10nF~50nF.

FEATURES :

- POLARIZATION INDEX (PI)
- DIELECTRIC ABSORPTION (DAR)
- AUTO POWER OFF (APO 15 MINUTES)
- USB INTERFACE
- HIGH VOLTAGE INDICATION
- HIGH RESOLUTION, EASY TO CARRY, STABLE PERFORMANCE
- SHOCKPROOF, DUSTPROOF, MOISTURE-PROOF STRUCTURE
- 4 BIT LARGE LCD 108MM × 65MM
- OBLIQUE WAVE TEST (RAMP) & FILTER TEST (FR)
- DATA STORAGE 500 GROUPS, DATA REVIEW FEATURES
- ALARM VALUE CAN BE SET
- BACKLIGHT CAN BE CONTROLLED
- SOFTWARE MONITORING, STORAGE DATA CAN BE UPLOADED TO COMPUTER, SAVE & PRINT



TECHNICAL SPECIFICATION

OUTPUT VOLTAGE	MEASURING RANGE	ACCURACY	RESOLUTION
100V (±10%)	0.05 MΩ ~0.5 MΩ	±3%rdg±5dgt	0.001MΩ
	0.5 MΩ ~5 MΩ		0.01MΩ
	5 MΩ ~50 MΩ		0.1MΩ
	50 MΩ ~500 MΩ	±10%rdg±5dgt	1MΩ
	0.5GΩ ~5 GΩ		0.01GΩ
	5 GΩ ~50 GΩ		0.1GΩ
	50 GΩ ~500 GΩ		1GΩ
250V (±10%)	0.1 MΩ ~1 MΩ	±3%rdg±5dgt	0.001MΩ
	1 MΩ ~10 MΩ		0.01MΩ
	10 MΩ ~100 MΩ		0.1MΩ
	100 MΩ ~1000 MΩ	±10%rdg±5dgt	1MΩ
	1 GΩ ~10 GΩ		0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
	100 GΩ ~1000 GΩ		1GΩ
500V (±10%)	0.2 MΩ ~2 MΩ	±3%rdg±5dgt	0.001MΩ
	2 MΩ ~20 MΩ		0.01MΩ
	20 MΩ ~200 MΩ		0.1MΩ
	200 MΩ ~2000 MΩ	±10%rdg±5dgt	1MΩ
	2 GΩ ~20 GΩ		0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
	200 GΩ ~2000 GΩ		1GΩ
1000V (±10%)	0.5 MΩ ~5 MΩ	±3%rdg±5dgt	0.001MΩ
	5 MΩ ~50 MΩ		0.01MΩ
	50 MΩ ~500 MΩ		0.1MΩ
	500 MΩ ~5000 MΩ	±10%rdg±5dgt	1MΩ
	5 GΩ ~50 GΩ		0.01GΩ
	50 GΩ ~500 GΩ		0.1GΩ
	500 GΩ ~5000 GΩ		1GΩ
2500V (±10%)	1 MΩ ~10 MΩ	±3%rdg±5dgt	0.01MΩ
	10 MΩ ~100 MΩ		0.1MΩ
	100 MΩ ~1000 MΩ		1MΩ
	1 GΩ ~10 GΩ	±10%rdg±5dgt	0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
	100 GΩ ~1000 GΩ		1GΩ
	1 TΩ ~10 TΩ		0.01TΩ
5000V (±10%)	2 MΩ ~20 MΩ	±3%rdg±5dgt	0.01MΩ
	20 MΩ ~200 MΩ		0.1MΩ
	200 MΩ ~2000 MΩ		1MΩ
	2 GΩ ~20 GΩ	±10%rdg±5dgt	0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
	200 GΩ ~2000 GΩ		1GΩ
	2 TΩ ~10 TΩ		0.01TΩ

RANGE	ACCURACY	RESOLUTION
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DC VOLTAGE

0.0V ~ 1000 V	±5% rdg ±3dgt	0.1V
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AC VOLTAGE

0.0V ~ 750 V	±5% rdg ±3dgt	0.1V
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DC CURRENT

1mA~6mA	±5%rdg±2dgt	0.01mA
100uA~1000uA		1uA
10uA~100uA		0.1uA
1uA~10uA		0.01uA
100nA~1000nA		1uA
10nA~100nA	±10%rdg±5dgt	0.1nA
1nA~10nA	±20%rdg±5dgt	0.01nA
100pA~1000pA	±30%rdg±5dgt	1pA

CAPACITANCE

10uF ~50uF	±10%fs ±5dgt	0.01uF
1uF ~10uF		0.01uF
100nF ~1000nF		1nF
10nF ~ 100nF		0.1nF

Absorption ratio and polarization index measurement power : Yes

Power Consumption : Standby: 30mA Max (backlight off)
Turn on backlight: 42mA Max
Measure : 200mA Max(backlight off)

Insulation Resistance : ≥50MΩ (between Measuring line and housing)

Pressure Resistance : AC3kV/50Hz 1min

POWER : 12.6V RECHARGEABLE BATTERY

Dimension	: H240 x W188x D85 mm
Weight	: Approx. 2750g.
Accessories	: Meter, High Pressure Rod-Red, High voltage test line Black, Green each 1, Monitoring Software CD, USB communication line USB, Charger, Manual, Certificate
Qty	: 2 Pcs. in a Box.



AC/DC Voltage



Alarm



DC Current



Data Storage



Capacitance



Shock Proof



Resistance



Backlight



Insulation Resistance



Over Range Display



Auto Power Off



300V

DIGITAL INSULATION

RESISTANCE METER consists of medium and large scale integrated circuits. The output power of the watch is large and the output voltage level is a lot (with 6 voltage levels). DC voltage measurement range is 0~1000V, AC voltage measures range as 0~750V. DC current measurement range is 100pA~6mA. Capacitance measurement range is 10nF~50nF.

FEATURES :

- POLARIZATION INDEX (PI)
- DIELECTRIC ABSORPTION (DAR)
- AUTO POWER OFF (APO 15 MINUTES)
- USB INTERFACE
- HIGH VOLTAGE INDICATION
- HIGH RESOLUTION, EASY TO CARRY, STABLE PERFORMANCE
- SHOCKPROOF, DUSTPROOF, MOISTURE-PROOF STRUCTURE
- 4 BIT LARGE LCD 108MM × 65MM
- OBLIQUE WAVE TEST (RAMP) & FILTER TEST (FR)
- DATA STORAGE 500 GROUPS, DATA REVIEW FEATURES
- ALARM VALUE CAN BE SET
- BACKLIGHT CAN BE CONTROLLED
- SOFTWARE MONITORING, STORAGE DATA CAN BE UPLOADED TO COMPUTER, SAVE & PRINT



TECHNICAL SPECIFICATION

OUTPUT VOLTAGE	MEASURING RANGE	ACCURACY	RESOLUTION
250V (±10%)	0.1 MΩ ~1 MΩ	±3%rdg±5dgt	0.001MΩ
	1 MΩ ~10 MΩ		0.01MΩ
	10 MΩ ~100 MΩ		0.1MΩ
	100 MΩ ~1000 MΩ		1MΩ
	1 GΩ ~10 GΩ		0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
500V (±10%)	100 GΩ ~1000 GΩ	±20%rdg±5dgt	1GΩ
	0.2 MΩ ~2 MΩ	±3%rdg±5dgt	0.001MΩ
	2 MΩ ~20 MΩ		0.01MΩ
	20 MΩ ~200 MΩ		0.1MΩ
	200 MΩ ~2000 MΩ		1MΩ
	2 GΩ ~20 GΩ		0.01GΩ
20 GΩ ~200 GΩ	0.1GΩ		
1000V (±10%)	200 GΩ ~2000 GΩ	±20%rdg±5dgt	1GΩ
	0.5 MΩ ~5 MΩ	±3%rdg±5dgt	0.001MΩ
	5 MΩ ~50 MΩ		0.01MΩ
	50 MΩ ~500 MΩ		0.1MΩ
	500 MΩ ~5000 MΩ		1MΩ
	5 GΩ ~50 GΩ		0.01GΩ
50 GΩ ~500 GΩ	0.1GΩ		
2500V (±10%)	500 GΩ ~5000 GΩ	±20%rdg±5dgt	1GΩ
	1 MΩ ~10 MΩ	±3%rdg±5dgt	0.01MΩ
	10 MΩ ~100 MΩ		0.1MΩ
	100 MΩ ~1000 MΩ		1MΩ
	1 GΩ ~10 GΩ		0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
100 GΩ ~1000 GΩ	1GΩ		
5000V (±10%)	1 TΩ ~10 TΩ	±20%rdg±5dgt	0.01TΩ
	2 MΩ ~20 MΩ	±3%rdg±5dgt	0.01MΩ
	20 MΩ ~200 MΩ		0.1MΩ
	200 MΩ ~2000 MΩ		1MΩ
	2 GΩ ~20 GΩ		0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
200 GΩ ~2000 GΩ	1GΩ		
10KV (±10%)	2 TΩ ~10 TΩ	±20%rdg±5dgt	0.01TΩ
	5 MΩ ~50 MΩ	±3%rdg±5dgt	0.01MΩ
	50 MΩ ~500 MΩ		0.1MΩ
	500 MΩ ~5000 MΩ		1MΩ
	5 GΩ ~50 GΩ		0.01GΩ
	50 GΩ ~500 GΩ		0.1GΩ
500 GΩ ~5000 GΩ	1GΩ		

POWER : 12.6V RECHARGEABLE BATTERY

Dimension	: H240 x W188x D85 mm
Weight	: Approx. 2750g.
Accessories	: Meter, High Pressure Rod-Red, High voltage test line Black, Green each 1, Monitoring Software CD, USB communication line USB, Charger, Manual, Certificate
Qty	: 2 Pcs. in a Box.

RANGE	ACCURACY	RESOLUTION
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DC VOLTAGE

0.0V ~ 1000 V	±5% rdg ±3dgt	0.1V
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AC VOLTAGE

0.0V ~ 750 V	±5% rdg ±3dgt	0.1V
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DC CURRENT

1mA~6mA	±5%rdg±2dgt	0.01mA
100uA~1000uA		1uA
10uA~100uA		0.1uA
1uA~10uA		0.01uA
100nA~1000nA		1uA
10nA~100nA	±10%rdg±5dgt	0.1nA
1nA~10nA	±20%rdg±5dgt	0.01nA
100pA~1000pA	±30%rdg±5dgt	1pA

CAPACITANCE

10uF ~50uF	±10%fs ±5dgt	0.01uF
1uF ~10uF		0.01uF
100nF ~1000nF		1nF
10nF ~ 100nF		0.1nF

Absorption ratio and polarization : Yes
index measurement power

Power Consumption : Standby: 30mA Max (backlight off)
Turn on backlight: 42mA Max
Measure : 200mA Max(backlight off)

Insulation Resistance : ≥50MΩ (between Measuring line and housing)

Pressure Resistance : AC3kV/50Hz 1min



AC/DC Voltage



Alarm



DC Current



Data Storage



Capacitance



Shock Proof



Resistance



Backlight



Insulation Resistance



Over Range Display



Auto Power Off



300V

DIGITAL INSULATION

RESISTANCE METER consists of medium and large scale integrated circuits. The output power of the watch is large and the output voltage level is a lot (with 6 voltage levels). DC voltage measurement range is 0~1000V, AC voltage measures range as 0~750V. DC current measurement range is 100pA~6mA. Capacitance measurement range is 10nF~50nF.

FEATURES :

- POLARIZATION INDEX (PI)
- DIELECTRIC ABSORPTION (DAR)
- AUTO POWER OFF (APO 15 MINUTES)
- USB INTERFACE
- HIGH VOLTAGE INDICATION
- HIGH RESOLUTION, EASY TO CARRY, STABLE PERFORMANCE
- SHOCKPROOF, DUSTPROOF, MOISTURE-PROOF STRUCTURE
- 4 BIT LARGE LCD 108MM × 65MM
- OBLIQUE WAVE TEST (RAMP) & FILTER TEST (FR)
- DATA STORAGE 500 GROUPS, DATA REVIEW FEATURES
- ALARM VALUE CAN BE SET
- BACKLIGHT CAN BE CONTROLLED
- SOFTWARE MONITORING, STORAGE DATA CAN BE UPLOADED TO COMPUTER, SAVE & PRINT



TECHNICAL SPECIFICATION

OUTPUT VOLTAGE	MEASURING RANGE	ACCURACY	RESOLUTION
500V (±10%)	0.2 MΩ ~2 MΩ	±3%rdg±5dgt	0.001MΩ
	2 MΩ ~20 MΩ		0.01MΩ
	20 MΩ ~200 MΩ		0.1MΩ
	200 MΩ ~2000 MΩ	±10%rdg±5dgt	1MΩ
	2 GΩ ~20 GΩ		0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
	200 GΩ ~2000 GΩ		1GΩ
1000V (±10%)	0.5 MΩ ~5 MΩ	±3%rdg±5dgt	0.001MΩ
	5 MΩ ~50 MΩ		0.01MΩ
	50 MΩ ~500 MΩ		0.1MΩ
	500 MΩ ~5000 MΩ	±10%rdg±5dgt	1MΩ
	5 GΩ ~50 GΩ		0.01GΩ
	50 GΩ ~500 GΩ		0.1GΩ
	500 GΩ ~5000 GΩ		1GΩ
2500V (±10%)	1 MΩ ~10 MΩ	±3%rdg±5dgt	0.01MΩ
	10 MΩ ~100 MΩ		0.1MΩ
	100 MΩ ~1000 MΩ		1MΩ
	1 GΩ ~10 GΩ	±10%rdg±5dgt	0.01GΩ
	10 GΩ ~100 GΩ		0.1GΩ
	100 GΩ ~1000 GΩ		1GΩ
	1 TΩ ~10 TΩ		0.01TΩ
5000V (±10%)	2 MΩ ~20 MΩ	±3%rdg±5dgt	0.01MΩ
	20 MΩ ~200 MΩ		0.1MΩ
	200 MΩ ~2000 MΩ		1MΩ
	2 GΩ ~20 GΩ	±10%rdg±5dgt	0.01GΩ
	20 GΩ ~200 GΩ		0.1GΩ
	200 GΩ ~2000 GΩ		1GΩ
	2 TΩ ~10 TΩ		0.01TΩ
10KV (±10%)	5 MΩ ~50 MΩ	±3%rdg±5dgt	0.01MΩ
	50 MΩ ~500 MΩ		0.1MΩ
	500 MΩ ~5000 MΩ		1MΩ
	5 GΩ ~50 GΩ	±5%rdg±5dgt	0.01GΩ
	50 GΩ ~500 GΩ		0.1GΩ
	500 GΩ ~5000 GΩ		1GΩ
	5 TΩ ~35 TΩ		0.01TΩ
15KV (±10%)	6 MΩ ~ 60 MΩ	±3%rdg±5dgt	0.01MΩ
	60 MΩ ~ 600 MΩ		0.1MΩ
	600 MΩ ~ 6000 MΩ		1MΩ
	6 GΩ ~ 60 GΩ	±10%rdg±5dgt	0.01GΩ
	60 GΩ ~ 600 GΩ		0.1GΩ
	600 GΩ ~ 6000 GΩ		1GΩ
	6 TΩ ~ 50 TΩ		0.01TΩ

RANGE	ACCURACY	RESOLUTION
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DC VOLTAGE

0.0V ~ 1000 V	±5% rdg ±3dgt	0.1V
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AC VOLTAGE

0.0V ~ 750 V	±5% rdg ±3dgt	0.1V
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DC CURRENT

1mA~6mA	±5%rdg±2dgt	0.01mA
100uA~1000uA		1uA
10uA~100uA		0.1uA
1uA~10uA		0.01uA
100nA~1000nA		1uA
10nA~100nA	±10%rdg±5dgt	0.1nA
1nA~10nA	±20%rdg±5dgt	0.01nA
100pA~1000pA	±30%rdg±5dgt	1pA

CAPACITANCE

10uF ~50uF	±10%fs ±5dgt	0.01uF
1uF ~10uF		0.01uF
100nF ~1000nF		1nF
10nF ~ 100nF		0.1nF

Absorption ratio and polarization : Yes
index measurement power

Power Consumption : Standby: 30mA Max (backlight off)
Turn on backlight: 42mA Max
Measure : 200mA Max(backlight off)

Insulation Resistance : ≥50MΩ (between Measuring line and housing)

Pressure Resistance : AC3kV/50Hz 1min

POWER : 12.6V RECHARGEABLE BATTERY

Dimension	: H240 x W188x D85 mm
Weight	: Approx. 2750g.
Accessories	: Meter, High Pressure Rod-Red, High voltage test line Black, Green each 1, Monitoring Software CD, USB communication line USB, Charger, Manual, Certificate
Qty	: 2 Pcs. in a Box.



FEATURES :

- MEMORY FOR 32,700 READINGS
- LCD TO SHOW LOGGING INFORMATION EASILY
- FREE SELECTABLE MEASUREMENT CYCLE FROM 1 SEC TO 24 HRS.
- DISPLAY ALL STATUS FOR ALARM AND RECORD THROUGH 2 LED'S
- ALARM DISPLAY IF USER-DEFINED MAX/MIN VALUES ARE EXCEEDED
- ANALYSIS SOFTWARE USED TO VIEW GRAPHICALLY OR TEXT MODE FOR LOGGING DATA
- USB COMPUTER INTERFACE (ADVANCED SOFTWARE PROGRAM FOR ALL WINDOWS)
- MAX / MIN VALUE



Ambient Humidity



Environment Temperature



Low Battery Indication



Memory 32700 Reading



USB Computer Interface



Max / Min Measurement



Alarm if values exceeded



Logged data can be Analysed graphically

TECHNICAL SPECIFICATION

HUMIDITY RANGE	0~100% RH
RESOLUTION	0.1% RH
ACCURACY	35~80% RH: ±3.0% RH 0~35% RH & 80~100% RH: <±5%RH
TEMPERATURE RANGE	-40°~70°C / -40°F~158°F
RESOLUTION	0.1°C / 1.8°F
ACCURACY	-40°C~40°C / -40°F~104°F: ±1.0°C/1.8°F 40°C~70°C / 104°F~158°F: ±2.0°C/3.6°F
MEASURING RATE	1 SEC. TO 24 HRS.
MEMORY	32000 READING (16000 Each For Temperature & Humidity)
ACCURACY	20%~80% ±5.0% RH others ± 6.0% RH

POWER : 3.6 V LITHIUM BATTERY

Dimension	: H95 x W52 x D30mm
Weight	: Approx. 125 Gms.
Accessories	: Hard Carry Case, User Manual, Software CD & USB Cable & Battery
Qty	: 40 Pcs. in a Box.



FEATURES :

- LIGHT WEIGHT, POCKET SIZE, EASY TO CARRY
- LCD DISPLAY
- TEMP MEASURED IN °C / °F
- HIGH ACCURACY TEMPERATURE & HUMIDITY SENSOR
- FAST RESPONSE & STABILITY
- ACCESS THE PC'S USB PORT
- MEMORY : 25000 GROUPS
- OVER RANGE INDICATION
- ALARM VALUE OF HIGH & LOW TEMPERATURE & HUMIDITY



Temp



Humidity Sensor



LCD Display



Alarm if values exceeded



Memory 25000 Groups



USB Computer Interface



Over Range Display



Report in PDF Format

TECHNICAL SPECIFICATION

HUMIDITY RANGE	0~100% RH
RESOLUTION	0.1% RH
ACCURACY	45~75% RH: ±3.0% RH Others : ±5RH
TEMPERATURE RANGE	-40~70°C / -40°F~158°F
RESOLUTION	0.1°C / 0.1°F
ACCURACY	-10°C~50°C±1.0°C / 14°F~122°F: ±1.8°F
LCD FREQUENCY	1 Time/Second
FILE FORMAT	PDF

POWER : 3.6 V LITHIUM BATTERY

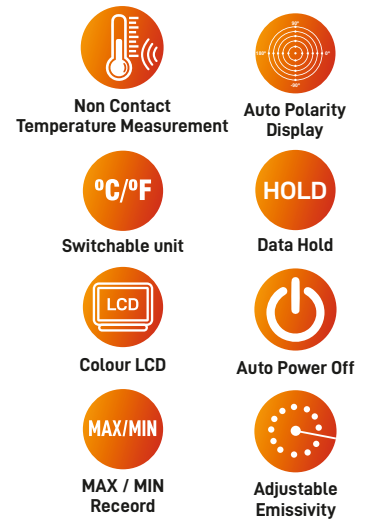
Dimension	: H97 x W44 x D13mm
Weight	: Approx. 36 Gms. W/o BATTERY
Accessories	: User Manual, Software CD & USB Cable
Qty	: 100 Pcs. in a Box.

MT-4 INDUSTRIAL PYROMETER



FEATURES :

- PRECISE NON CONTACT MEASUREMENT
- °C OR °F SELECTION
- FAST, EASY & ACCURATE TEMPERATURE READING
- AUTOMATIC MEASUREMENT RANGE SELECTION
- ADJUSTABLE EMISSIVITY 0.1~1.0
- MAX / MIN RECORD
- COLOUR LCD & BACKLIGHT
- AUTOMATIC TRIGGER OFF
- BUILT IN LASER POINTER INCREASE THE TARGET ACCURACY
- K TYPE INPUT MEASUREMENT
- DISTANCE SPOT RATIO (D:S) 12:1



TECHNICAL DATA :

RANGE	-50°C~550°C / -58°F~1022°F
ACCURACY	-20°C~0°C ±4°C ; -4°F~32°F±7°F Above 0°C/32°F; ±2% of reading ±2°C/3.6°F
RESOLUTION	0.1°C~0.1°F
DISTANCE SPOT RATIO	12:1
RESPONSE TIME	<500ms
EMISSIVITY	Adjustable From 0.01~1.0
SPECTRAL RESPONSE	8~14um
POLARITY DISPLAY	Auto display "-" indicates negative, while positive with no sign
DIODE LASER	OUTPUT <1mW/630-670nm Level 2(II) Laser
AUTO POWER OFF	Auto shuts off after 20 seconds inactive
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH

POWER : 9V (6F22) x 1

Dimension	: H156 x W99 x D28 mm
Weight	: Approx. 176 Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box

MT-6 INDUSTRIAL PYROMETER

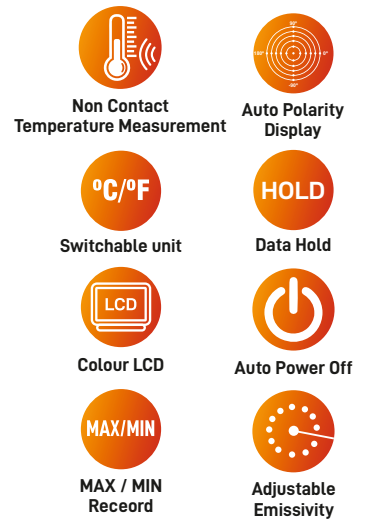


Performance with Precision



FEATURES :

- PRECISE NON CONTACT MEASUREMENT
- °C OR °F SELECTION
- FAST, EASY & ACCURATE TEMPERATURE READING
- AUTOMATIC MEASUREMENT RANGE SELECTION
- ADJUSTABLE EMISSIVITY 0.1-1.0
- MAX / MIN RECORD
- COLOUR LCD & BACKLIGHT
- AUTOMATIC TRIGGER OFF
- BUILT IN LASER POINTER INCREASE THE TARGET ACCURACY
- K TYPE INPUT MEASUREMENT
- DISTANCE SPOT RATIO (D:S) 12:1



TECHNICAL DATA :

RANGE	-50°C~750°C / -58°F~1382°F
ACCURACY	-20°C~0°C ±4°C ; -4°F~32°F±7°F Above 0°C/32°F; ±2% of reading ±2°C/3.6°F
RESOLUTION	0.1°C~0.1°F
DISTANCE SPOT RATIO	12:1
RESPONSE TIME	<500ms
EMISSIVITY	Adjustable From 0.01~1.0
SPECTRAL RESPONSE	8~14um
POLARITY DISPLAY	Auto display "-" indicates negative, while positive with no sign
DIODE LASER	OUTPUT <1mW/630-670nm Level 2(II) Laser
AUTO POWER OFF	Auto shuts off after 20 seconds inactive
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH

POWER : 9V (6F22) x 1

Dimension	: H156 x W99 x D28 mm
Weight	: Approx. 176 Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box



FEATURES :

- NON-CONTACT TEMPERATURE MEASUREMENT
- ROUND LASER TARGET SELECTION
- LASER IS INDEPENDENT OF TEMPERATURE MEASUREMENT
- MAX FUNCTION
- LASER SWITCH
- COLOUR LED DISPLAY
- DATA HOLD
- °C OR °F SELECTION
- HIGH / LOW ALARM INDICATORS
- ADJUSTABLE EMISSIVITY
- TARGET DISTANCE RATIO D:S 12:1
- LOW BATTERY INDICATION
- AUTO POWER OFF

- Back light
- Data Hold
- Switchable Temperature Unit
- Adjustable Emissivity
- Colour LCD
- Low / High Alarm
- Low Battery Indication
- Auto Power Off

*Attention to be paid to effect of radiation on measurement result. Refer manual for reference table of infrared of different measurement surface.

TECHNICAL DATA :

BASIC FUNCTION	RANGE	ACCURACY
INFRARED TEMPERATURE	-50°C~800°C -58°F~1472°F	-50°C~0°C (-58°F~32°F)±3°C
		0°C~800°C / 32°F~1472°F ±2.0% or±2°C
AMBIENT TEMPERATURE	-10°C~60°C 14°F~140°F	0°C~40°C (32°F~113°F)±1.0°C/2°F
		OTHERS : ±1.5°C/3°F
AMBIENT HUMIDITY	0%~100%RH	20%~80%; ±4.0%RH, OTHERS : ±5.0%RH
DISTANCE SPORT RATIO	12:1	
EMITTANCE	Adjustable 0.10~1.00	
RESPONSE SPECTRUM	8~14um	
LASER	<1mW/630-670nm Level 2	
RESPONSE TIME	<0.5S	
AUTO POWER OFF	30 SECOND	

POWER : 1.5V X 2 AAA BATTERY

Dimension	: H148 x W102 x D46 mm
Weight	: Approx. 100 Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box.



FEATURES :

- NON-CONTACT TEMPERATURE MEASUREMENT
- ROUND LASER TARGET SELECTION
- LASER IS INDEPENDENT OF TEMPERATURE MEASUREMENT
- MAX FUNCTION
- LASER SWITCH
- COLOUR LED DISPLAY
- DATA HOLD
- °C OR °F SELECTION
- HIGH / LOW ALARM INDICATORS
- ADJUSTABLE EMISSIVITY
- TARGET DISTANCE RATIO D:S 12:1
- LOW BATTERY INDICATION
- AUTO POWER OFF

- Back light
- Data Hold
- Switchable Temperature Unit
- Adjustable Emissivity
- Colour LCD
- Low / High Alarm
- Low Battery Indication
- Auto Power Off

*Attention to be paid to effect of radiation on measurement result. Refer manual for reference table of infrared of different measurement surface.

TECHNICAL DATA :

BASIC FUNCTION	RANGE	ACCURACY
INFRARED TEMPERATURE	-50°C~380°C / -58°F~716°F	-50°C~0°C (-58°F~32°F)±3°C
	-50°C~550°C / -58°F~1022°F	0°C~550°C(-32°F~1022°F), ±(1.5%+2°C)
DISTANCE SPORT RATIO	12:1	
EMITTANCE	Adjustable 0.10~1.00	
RESPONSE SPECTRUM	8~14um	
LASER	<1mW/630-670nm Level 2	
RESPONSE TIME	<0.5S	
AUTO POWER OFF	30 SECOND	

POWER : 1.5V X 2 AAA BATTERY

Dimension	: H148 x W102 x D46 mm
Weight	: Approx. 100 Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box.



FEATURES :

- PRECISE NON-CONTACT MEASUREMENT
- °C OR °F SELECTION
- FAST, EASY & ACCURATE TEMPERATURE READING
- AUTOMATIC MEASUREMENT RANGE SELECTION
- ADJUSTABLE EMISSIVITY
- MAX / MIN RECORD
- BACKLIGHT LCD DISPLAY
- AUTOMATIC TRIGGER OFF
- BUILT IN LASER POINTER INCREASE THE TARGET ACCURACY
- DISTANCE SPOT RATIO (D:S) 13:1

- Non Contact Temperature Measurement
- Auto Polarity Display
- Switchable unit
- Data Hold
- Colour LCD
- Auto Power Off
- MAX / MIN Record
- Temperature Alarm
- Adjustable Emissivity

TECHNICAL DATA :

RANGE	-50°C~-580°C / -58°F~-1076°F
ACCURACY	-50°C~0°C / -4°F~32°F:±4°C/7°F above 0°C/32°F:±2% of reading ±2°C/3.6°F
RESOLUTION	0.1°C~0.1°F
DISTANCE SPOT RATIO	13:1
EMITTANCE	ADJUSTABLE FROM 0.01~1.0
RESPONSE TIME	<500ms
RESPONSE SPECTRUM	8~14um
DIODE LASER	OUTPUT <1mW/630-670nm Level 2(II) Laser
AUTO POWER OFF	AROUND 25 SECOND
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH

POWER : 1.5V X 2 AAA BATTERY

Dimension	: H156 x W99 x D28 mm
Weight	: Approx. 176 Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box.



FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT-IN ROUND LASER POINTER INCREASE THE TARGET ACCURACY
- FAST & EASY MEASUREMENT
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1-1.0
- MAX, MIN, DIF, AVG RECORD
- REC DATALOGGER FUNCTION FOR 12 POINTS
- LCD DISPLAY WITH BACKLIGHT
- TRIGGER LOCK
- ADJUSTABLE HIGH / LOW ALARM
- AUTOMATIC RANGE SELECTION
- AUTOMATIC DATA HOLD FUNCTION



K Type Probe Interface



Non Contact Temperature Measurement



IR / TK Temperature



Adjustable Emissivity



Auto Power Off



Trigger Lock



Data Logger Function



Data Hold



Polarity Display



MAX / MIN Record

TECHNICAL DATA :

RANGE	IR	-50°C~-500°C / -58°F~932°F	
	TK	-50°C~-1370°C / -58°F~2498°F	
ACCURACY	IR:-50~0°C/-58~32°F : ±4°C/7.2°F IR:0~500°C/32~932°F : ±1.5%±2°C/3.6°F Above 500°C/932°F : ±2.0%±2°C/3.6°F TK:-50~1370°C/-58~2498°F : ~±1.5%±1°C/1.8°F		
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000		
DISTANCE SPORT RATIO	13:1		
EMISSIVITY	ADJUSTABLE : 0.10~1.0		
RESPONSE TIME	<250ms		
SPECTRAL RESPONSE	8~14um		
OVER RANGE INDICATION	LO	HI	
POLARITY DISPLAY	Auto Display "-" indicates negative, while positive with no sign		
DIODE LASER	OUTPUT <1mW/630~670nm Level 2(II) Laser		
AUTO POWER OFF	AUTOMATICALLY AFTER 35 SECOND		
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH		

POWER : 9V (6F22) x 1

Dimension	: H192 x W95 x D83 mm
Weight	: Approx. 275 Gms.
Accessories	: Soft Carry Case, Type K Probe, Hook, User Manual & Battery
Qty	: 40 Pcs. in a Box.

IRX-63 INDUSTRIAL PYROMETER

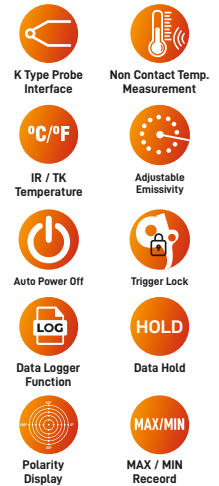
WITH TYPE-K INPUT



Performance with Precision

FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT-IN ROUND LASER POINTER INCREASE THE TARGET ACCURACY
- FAST & EASY MEASUREMENT
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1-1.0
- MAX, MIN, DIF, AVG RECORD
- REC DATALOGGER FUNCTION FOR 12 POINTS
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- AUTOMATIC RANGE SELECTION
- AUTOMATIC DATA HOLD FUNCTION



TECHNICAL DATA :

RANGE	IR	-50°C~850°C / -58°F~1472°F	
	TK	-50°C~1370°C / -58°F~2498°F	
ACCURACY	IR:-50~0°C/-58~32°F : ±4°C/7.2°F IR:0~500°C/32~932°F : ±1.5%±2°C/3.6°F Above 500°C/932°F : ±2.0%±2°C/3.6°F TK:-50~1370°C/-58~2498°F : ~±1.5%±1°C/1.8°F		
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000		
DISTANCE SPORT RATIO	30:1		
EMISSIVITY	ADJUSTABLE : 0.10~1.0		
RESPONSE TIME	<250ms		
SPECTRAL RESPONSE	8~14um		
OVER RANGE INDICATION	LO	HI	
POLARITY DISPLAY	Auto Display "-" indicates negative, while positive with no sign		
DIODE LASER	OUTPUT <1mW/630~670nm Level 2(II) Laser		
AUTO POWER OFF	AUTOMATICALLY AFTER 35 SECOND		
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH		

POWER : 9V (6F22) x 1

Dimension	: H192 x W95 x D83 mm
Weight	: Approx. 275 Gms.
Accessories	: Soft Carry Case, Type K Probe, Hook, User Manual & Battery
Qty	: 40 Pcs. in a Box.

FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT-IN ROUND LASER POINTER INCREASE THE TARGET ACCURACY
- FAST & EASY MEASUREMENT
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1~1.0
- MAX, MIN, DIF, AVG RECORD
- REC DATALOGGER FUNCTION FOR 12 POINTS
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- AUTOMATIC RANGE SELECTION
- AUTOMATIC DATA HOLD FUNCTION



- K Type Probe Interface
- Non Contact Temp. Measurement
- IR / TK Temperature
- Adjustable Emissivity
- Auto Power Off
- Trigger Lock
- Data Logger Function
- Data Hold
- Polarity Display
- MAX / MIN Record

TECHNICAL DATA :

RANGE	IR	-50°C~1050°C / -58°F~1922°F	
	TK	-50°C~1370°C / -58°F~2498°F	
ACCURACY	IR:-50~0°C/-58~32°F : ±4°C/7.2°F IR:0~500°C/32~932°F : ±1.5%±2°C/3.6°F Above 500°C/932°F : ±2.0%±2°C/3.6°F TK:-50~1370°C/-58~2498°F : ~±1.5%±1°C/1.8°F		
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000		
DISTANCE SPORT RATIO	30:1		
EMISSIVITY	ADJUSTABLE : 0.10~1.0		
RESPONSE TIME	<250ms		
SPECTRAL RESPONSE	8~14um		
OVER RANGE INDICATION	LO	HI	
POLARITY DISPLAY	Auto Display "-" indicates negative, while positive with no sign		
DIODE LASER	OUTPUT <1mW/630~670nm Level 2(II) Laser		
AUTO POWER OFF	AUTOMATICALLY AFTER 35 SECOND		
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH		

POWER : 9V (6F22) x 1

Dimension	: H192 x W95 x D83 mm
Weight	: Approx. 275 Gms.
Accessories	: Soft Carry Case, Type K Probe, Hook, User Manual & Battery
Qty	: 40 Pcs. in a Box.



FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT-IN ROUND LASER POINTER INCREASE THE TARGET ACCURACY
- FAST & EASY MEASUREMENT
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1-1.0
- MAX, MIN, DIF, AVG RECORD
- REC DATALOGGER FUNCTION FOR 12 POINTS
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- AUTOMATIC RANGE SELECTION
- AUTOMATIC DATA HOLD FUNCTION

- K Type Probe Interface
- Non Contact Temp. Measurement
- °C/°F
- IR / TK Temperature
- Adjustable Emissivity
- Auto Power Off
- Trigger Lock
- Data Logger Function
- Data Hold
- Polarity Display
- MAX / MIN Record

TECHNICAL DATA :

RANGE	IR	-50°C~1250°C / -58°F~2282°F
	TK	-50°C~1370°C / -58°F~2498°F
ACCURACY	IR:-50~0°C/-58~32°F : ±4°C/7.2°F IR:0~500°C/32~932°F : ±1.5%±2°C/3.6°F Above 500°C/932°F : ±2.0%±2°C/3.6°F TK:-50~1370°C/-58~2498°F : ~±1.5%±1°C/1.8°F	
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000	
DISTANCE SPORT RATIO	30:1	
EMISSIVITY	ADJUSTABLE : 0.10~1.0	
RESPONSE TIME	<250ms	
SPECTRAL RESPONSE	8~14um	
OVER RANGE INDICATION	LO	HI
POLARITY DISPLAY	Auto Display "-" indicates negative, while positive with no sign	
DIODE LASER	OUTPUT <1mW/630~670nm Level 2(II) Laser	
AUTO POWER OFF	AUTOMATICALLY AFTER 35 SECOND	
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH	

POWER : 9V (6F22) x 1

Dimension	: H192 x W95 x D83 mm
Weight	: Approx. 275 Gms.
Accessories	: Soft Carry Case, Type K Probe, Hook, User Manual & Battery
Qty	: 40 Pcs. in a Box.

FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT-IN ROUND LASER POINTER INCREASE THE TARGET ACCURACY
- FAST & EASY MEASUREMENT
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1~1.0
- MAX, MIN, DIF, AVG RECORD
- REC DATALOGGER FUNCTION FOR 12 POINTS
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- AUTOMATIC RANGE SELECTION
- AUTOMATIC DATA HOLD FUNCTION



- K Type Probe Interface
- Non Contact Temp. Measurement
- °C/°F Temperature
- IR / TK Temperature
- Adjustable Emissivity
- Auto Power Off
- Trigger Lock
- Data Logger Function
- HOLD Data Hold
- Polarity Display
- MAX / MIN Record

TECHNICAL DATA :

RANGE	IR	-50°C~1550°C / -58°F~2822°F	
	TK	-50°C~1370°C / -58°F~2498°F	
ACCURACY	IR:-50~0°C/-58~32°F : ±4°C/7.2°F IR:0~500°C/32~932°F : ±1.5%±2°C/3.6°F Above 500°C/932°F : ±2.0%±2°C/3.6°F TK:-50~1370°C/-58~2498°F : ~±1.5%±1°C/1.8°F		
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000		
DISTANCE SPORT RATIO	30:1		
EMISSIVITY	ADJUSTABLE : 0.10~1.0		
RESPONSE TIME	<250ms		
SPECTRAL RESPONSE	8~14um		
OVER RANGE INDICATION	LO	HI	
POLARITY DISPLAY	Auto Display "-" indicates negative, while positive with no sign		
DIODE LASER	OUTPUT <1mW/630~670nm Level 2(II) Laser		
AUTO POWER OFF	AUTOMATICALLY AFTER 35 SECOND		
RELATIVE HUMIDITY	OPERATING : 10 TO 95% RH		

POWER : 9V (6F22) x 1

Dimension	: H192 x W95 x D83 mm
Weight	: Approx. 275 Gms.
Accessories	: Soft Carry Case, Type K Probe, Hook, User Manual & Battery
Qty	: 40 Pcs. in a Box.

FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT IN LASER CIRCLE WITH 13 LASER SPOTS INCREASE THE TARGET ACCURACY
- SD CARD TO STORE DATA, FORMAT: CSV
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1~1.0
- MAX, MIN, DIF, AVG RECORD
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- DATA HOLD FUNCTION
- USB INTERFACE
- AUTO POWER OFF



- K Type Probe Interface
- Non Contact Temp. Measurement
- Trigger Lock
- HOLD Data Hold
- MAX / MIN / DIFF / AVG. Record
- °C / °F IR / TK Temperature
- OL Over Range Display
- Adjustable Emissivity
- USB Interface
- Auto Power Off

TECHNICAL DATA :

RANGE	IR	-50°C~1380°C / -58°F~2516°F
	TK	-50°C~1370°C / -58°F~2498°F
ACCURACY	IR : -50°C~0°C/-58°F~32°F : ±4°C/7.2°F IR : 0°C~500°C/-58°F~932°F : ±1.5%±2°C/3.6°F ABOVE 500°C~932°F : ±2.0% ±2°C/3.6°F TK : -50°C~1370°/-58°F~2498°F : ±1.5% or READING ±1°C/1.8°F	
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000	
DISTANCE SPORT RATIO	50:1	
EMISSIVITY	ADJUSTABLE : 0.10~1.0	
RESPONSE TIME	<250ms	
SPECTRAL RESPONSE	8~14um	
DIODE LASER	Output <1mW, 630-670nm, Class 2 (I) Laser	
AUTO POWER OFF	AUTOMATICALLY AFTER 20 SECOND	

POWER : 9V (6F22) x 1

Dimension	: H198 x W120 x D59 mm
Weight	: Approx. 286 Gms.
Accessories	: Hard Carry Case, USB Cable & Software, Tripod, TP-01 Temp. Probe, User Manual & Battery
Qty	: 10 Pcs. in a Box.

FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT IN LASER CIRCLE WITH 13 LASER SPOTS INCREASE THE TARGET ACCURACY
- SD CARD TO STORE DATA, FORMAT: CSV
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1~1.0
- MAX, MIN, DIF, AVG RECORD
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- DATA HOLD FUNCTION
- USB INTERFACE
- AUTO POWER OFF



- K Type Probe Interface
- Non Contact Temp. Measurement
- Trigger Lock
- HOLD Data Hold
- MAX / MIN / DIFF / AVG. Record
- °C / °F IR / TK Temperature
- OL Over Range Display
- Adjustable Emissivity
- USB Interface
- Auto Power Off

TECHNICAL DATA :

RANGE	IR	-50°C~1980°C / -58°F~3596°F
	TK	-50°C~1370°C / -58°F~2498°F
ACCURACY	IR : -50°C~0°C/-58°F~32°F : ±4°C/7.2°F IR : 0°C~500°C/-58°F~932°F : ±1.5%±2°C/3.6°F ABOVE 500°C~932°F : ±2.0% ±2°C/3.6°F TK : -50°C~1370°/-58°F~2498°F : ±1.5% or READING ±1°C/1.8°F	
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000	
DISTANCE SPORT RATIO	50:1	
EMISSIVITY	ADJUSTABLE : 0.10~1.0	
RESPONSE TIME	<250ms	
SPECTRAL RESPONSE	8~14um	
DIODE LASER	Output <1mW, 630-670nm, Class 2 (I) Laser	
AUTO POWER OFF	AUTOMATICALLY AFTER 20 SECOND	

POWER : 9V (6F22) x 1

Dimension	: H198 x W120 x D59 mm
Weight	: Approx. 286 Gms.
Accessories	: Hard Carry Case, USB Cable & Software, Tripod, TP-01 Temp. Probe, User Manual & Battery
Qty	: 10 Pcs. in a Box.

FEATURES :

- PRECISE IR AND TK TEMPERATURE MEASUREMENT
- BUILT IN LASER CIRCLE WITH 13 LASER SPOTS INCREASE THE TARGET ACCURACY
- SD CARD TO STORE DATA, FORMAT: CSV
- °C OR °F SELECTION
- TRIGGER LOCK
- ADJUSTABLE EMISSIVITY : 0.1~1.0
- MAX, MIN, DIF, AVG RECORD
- LCD DISPLAY WITH BACKLIGHT
- ADJUSTABLE HIGH / LOW ALARM
- DATA HOLD FUNCTION
- USB INTERFACE
- AUTO POWER OFF



- K Type Probe Interface
- Non Contact Temp. Measurement
- Trigger Lock
- HOLD
Data Hold
- MAX / MIN / DIFF / AVG. Record
- °C / °F
IR / TK Temperature
- OL
Over Range Display
- Adjustable Emissivity
- USB Interface
- Auto Power Off

TECHNICAL DATA :

RANGE	IR	-50°C~2280°C / -58°F~4136°F
	TK	-50°C~1370°C / -58°F~2498°F
ACCURACY	IR : -50°C~0°C/-58°F~32°F : ±4°C/7.2°F IR : 0°C~500°C/-58°F~932°F : ±1.5%±2°C/3.6°F ABOVE 500°C~932°F : ±2.0% ±2°C/3.6°F TK : -50°C~1370°/-58°F~2498°F : ±1.5% or READING ±1°C/1.8°F	
RESOLUTION	0.1°C(0.1°F) <1000, 1°C(1°F)>1000	
DISTANCE SPORT RATIO	50:1	
EMISSIVITY	ADJUSTABLE : 0.10~1.0	
RESPONSE TIME	<250ms	
SPECTRAL RESPONSE	8~14um	
DIODE LASER	Output <1mW, 630-670nm, Class 2 (I) Laser	
AUTO POWER OFF	AUTOMATICALLY AFTER 20 SECOND	

POWER : 9V (6F22) x 1

Dimension	: H198 x W120 x D59 mm
Weight	: Approx. 286 Gms.
Accessories	: Hard Carry Case, USB Cable & Software, Tripod, TP-01 Temp. Probe, User Manual & Battery
Qty	: 10 Pcs. in a Box.



FEATURES :

- 3½ LCD DISPLAY
- 1,999 COUNTS
- BACKLIGHT
- EARTH TESTER
- MILLIOHM & INSULATION TESTER
- SHORT CIRCUIT BUZZER ALARM
- HIGH PRESSURE SOUND & LIGHT ALARM
- 4 WIRE TESTING, CAPABLE OF TESTING EXTREME LOW IMPEDANCE
- ACCURATE MEASUREMENT OF CONDUCTOR ELECTRIC HEADING ELEMENTS AND SOLDER POINT
- HIGH MEASUREMENT RANGE OF 0.01 mΩ-2kΩ AT 6 RANGES
- EASY TO OPERATE
- WIDE TEST RANGE
- DATA HOLD
- FULL FUNCTION PROTECTION
- STRONG ANTI-MAGNETIC & ANTI JAMMING FUNCTION

Resistance

Back light

Easy to Operate

Milliohm

Low Battery Indication

Data Hold

Wide Test Range

Over Range Display

Accurate

Auto Power Off

CAT III
50V

TECHNICAL DATA

RANGE	RESOLUTION	ACCURACY	TESTING CURRENT
20mΩ	0.01mΩ	±(0.5% rdg±3)	Approx 100mA
200mΩ	0.1mΩ		Approx 50mA
2Ω	1mΩ		
20Ω	10mΩ		
200Ω	100mΩ		
2KΩ	1Ω		

POWER : AA 1.5V x 6 OR
EXTERNAL DC 9V POWER SOURCE

Dimension	: H116 x W175 x D62.5 mm
Weight	: Approx. 580g.
Accessories	: 4-Wire test lead x 1 Pair Shoulder strap x 1 Pc. User Manual & Battery x 6 Pcs.
Qty	: 20 Pcs. in a Box.

DIGITAL MICRO-OHM METER

MO-5004



FEATURES :

- LARGE LCD DISPLAY
- BACKLIGHT
- RESISTANCE MEASUREMENT RANGE : 0.001mΩ~30.00KΩ
- INSULATION RESISTANCE : MORE THAN 10 mΩ (BETWEEN CIRCUIT & CASE 500V)
- PRESSURE RESISTANCE : AC 3700V/rms (BETWEEN CIRCUIT & CASE)
- 4 WIRE METHOD TEST
- DATA HOLD
- 500 GROUPS DATA STORAGE
- DATA REVIEW FUNCTION
- AUTO POWER OFF



TECHNICAL DATA

RANGE	RESOLUTION	ACCURACY	TESTING CURRENT
0.01mΩ~100.00mΩ	0.01mΩ	±0.1%FS±20dgt	1.2A
100.1mΩ~1000.0mΩ	0.0001Ω		
1.001Ω~10.000Ω	0.001Ω		0.5A
10.01Ω~100.00Ω	0.01Ω		0.05A
100.1Ω~1000.0Ω	0.0001KΩ		5mA
1.001KΩ~10.000KΩ	0.001KΩ		0.5mA
10.01KΩ~30.00KΩ	0.01KΩ		

POWER : AA 1.5V x 6 OR
EXTERNAL DC 9V POWER SOURCE

Dimension : H116 x W175 x D62.5 mm
Weight : Approx. 580g.
Accessories : 4-Wire test lead x 1 Pair
 Shoulder strap x 1 Pc.
 User Manual &
 Battery x 6 Pcs.



FEATURES :

- FULL-COLOR LARGE LCD DISPLAY
LCD SIZE 108MM x 65MM
- BACKLIGHT, SUITABLE FOR DARK PLACES
- OVERRANGE OVERFLOW OCCURS
- FOUR-WIRE TEST DETECTION METHOD
- SAFE, PRECISE AND RELIABLE
- EASY TO USE TOUCH SCREEN OPERATION
- PORT OVERLOAD PROTECTION FUNCTION
- LARGE CAPACITY STORAGE
500 GROUPS OF DATA
- SELF DISCHARGE
- WIDE TEST RANGE
- USB INTERFACE
- FULL FUNCTION PROTECTION
- AUTO POWER OFF

Resistance

Back light

Easy to Operate

Wide Test Range

Low Battery Indication

Data Storage

Over Range Display

USB Port Support

Auto Power Off

CAT III
600V

TECHNICAL DATA

MEASURING CURRENT	RANGE	ACCURACY	TESTING CURRENT
10A	10.0uΩ~1000.0uΩ	0.01uΩ	±0.2% FS±10 dgt
	1.00mΩ~100.00mΩ	0.1uΩ	
5A	100.0mΩ~1000.0mΩ	0.01uΩ	
1A	1.000Ω~10.000Ω	0.001Ω	
0.1A	10.00Ω~100.00Ω	0.01Ω	
10mA	100.0Ω~1000.0Ω	0.1Ω	
1mA	1.000KΩ~10.000KΩ	0.001KΩ	±0.2% FS±20 dgt
	10.00KΩ~50.00KΩ	0.01KΩ	

**POWER : DC12.6V 2500mAh
LARGE-CAPACITY LITHIUM BATTERY**

Dimension	: H188 x W240 x D85 mm
Weight	: Approx. 1100g. (Including Battery)
Accessories	: 4-Wire test lead x 1 Pair Testlien : 5 meters, 1 red, 1 black, USB Cable, User Manual & Battery

TRANSISTOR TESTER

TT-825



Performance with Precision



FEATURES :

- 3½ DIGITAL LCD DISPLAY
- 1,999 COUNTS
- DATA HOLD
- AUTO RANGE
- DIODE
- TRANSISTOR
- TRIAC, CONTROLLED SILICON
- CAPACITOR
- PORTABLE & COMPACT
- Voltage regulator, protection voltage of varistor & insulation of electric appliance.
- Measuring method used is of Dual-Slop integration Analogou-digital convertor.
- PNP or NPN ranges can be used when measuring the diode reverse breakdown voltage.



DC Voltage



Diode



Capacitance



Compact



Portable



Low Battery Indication



hFE Test



AUTO Range



Triac



Data Hold



Transistor



PNP or NPN

RESISTANCE :

PARAMETER	MEASURING RANGE	DISPLAY	RESOLUTION	OPERATING CONDITION
V (BR) BREAKDOWN VOLTAGE	1000V	0~1000	IV	Breakdown current less than 1mA
	200V	0~199.9	0.1V	
VCC (SET) COLLECTOR EMITTER SATURATION VOLTAGE DROP	2A (IC)	0~6.00	0.1V	IC APPROX 2000mA IB APPROX 200mA
	800mA (IC)	0~6.00	0.1V	IC APPROX 800mA IB APPROX 80mA
	100mA (IC)	0~6.00	0.1V	IC APPROX 100mA IB APPROX 10mA
	10mA (IC)	0~6.00	0.1V	IC APPROX 10mA IB APPROX 1mA
hFE DC CURRENT GAIN	10mA (IB)	0~199.9	0.1	IB APPROX 10mA
	10mA (IB)	0~1999	1	IB APPROX 1mA
	10uA (IB)	0~1999	1	IB APPROX 0.01mA
LCEO REVERSE LEAKAGE CURRENT	2000uA	0~1999	1 uA	TESTING VOLTAGE APPROX 27V
78 OR 79 THREE TERMINAL VOLTAGE REGULATOR	78XX/79XX	0~24.0	0.1V	TESTING VOLTAGE APPROX 27V

POWER : 1.5V AA x 4

Dimension	: H100 x W150 x D70 mm
Weight	: Approx. 670g.
Accessories	: Hard Case (Meter enclosed) User Manual & Battery
Qty	: 20Pcs. in a Box.



- Back light
- Temp
- Humidity Unit
- Dew Point Temperature
- MAX/MIN/AVG Record
- Data Hold
- Wind Speed Measurement
- Wet Bulb Temperature
- Auto Power Off
- USB Computer Interface

FEATURES :

- 9999 COUNTS
- MEASURES IN °C & °F
- BACKLIGHT DISPLAY WITH LCD BARGRAPH
- DATA HOLD
- MIN / MAX / AVG FUNCTION
- AUTO POWER OFF
- USB INTERFACE
- USED FOR
 - AMBIENT TEMPERATURE
 - HUMIDITY
 - DEW POINT TEMPERATURE
 - WET BULB TEMPERATURE
 - WIND SPEED
 - AIR VOLUME
 - AIR VELOCITY

ACCURACY SPECIFICATION

AIR VELOCITY MEASUREMENT	RANGE	RESOLUTION	ACCURACY
M/S (Meter Per Second)	0.40~30.00	0.01	± (2.0%+0.5M/s)
Km/H (Kilometer Per Hour)	1.40~108.0	0.01~0.1	± (2.0%+1.8Km/H)
Ft/S (Feet Per Second)	1.30~98.50	0.01	± (2.0%+1.6Ft/S)
Ft/M (Feet Per Minute)	78.00~5900	0.01~1	± (2.0%+10Ft/M)
Knots (Nautical Miles per Hour)	0.80~58.30	0.01	± (2.0%+1.0Knots)
Mile/H (Miles Per Hour)	0.90~67.10	0.01	± (2.0%+1.1Mile/H)

SPECIFICATION :

- AIR VELOCITY** : 0.40~30.00m/s
- SAMPLING RATE** : Approx 1 reading / Second
- SENSOR** : Air Velocity / Flow Sensor :
angled arms with bearing
Temperature And Humidity
Sensor: Sensor Precision
- BEAUFORT WIND SCALE** : 0~12

AIR FLOW MEASUREMENT	RANGE	RESOLUTION	AREA
CFM (Cubic feet per minute)	0~9999	0.01~1	0~9.999
CMM (Cubic meter per minute)	0~9999	0.01~1	0~9.999
CMS (Cubic meter per Second)	0~9999	0.01~1	0~9.999

TEMPERATURE/HUMIDITY	RANGE	RESOLUTION	ACCURACY
AMBIENT TEMPERATURE	-20.0°-60.0°C (-4.0°F-140°F)	0.1	±1.5°C
WET BULB TEMPERATURE	-20.0°-60.0°C (-4.0°F-140°F)	0.1	±1.5°C
DEW POINT TEMPERATURE	-50.0°-60.0°C (-58.0°F-140°F)	0.1	±1.5°C
HUMIDITY	5.0%~95.0%RH	0.1	±5.0%RH

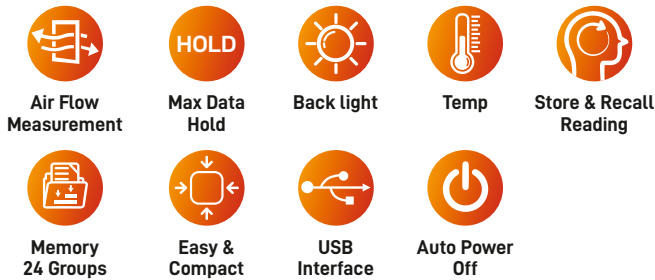
POWER : 1.5V AAA x 3

- Dimension** : H197 x W60 x D33 mm
- Weight** : Approx 180 gms.
- Accessories** : USB Cable, Software, User Manual, Carry Case & Battery
- Qty** : 40 Pcs. in a Box



FEATURES :

- 4 DIGIT LCD
- DATA MEMORIZED : 24 GROUPS
- DATA HOLD
- STORES & RECALLS READING
- AUTO POWER OFF
- COMPACT & EASY TO CARRY
- DATA OUTPUT : RS232C SERIAL INTERFACE
- MEASUREMENT UNIT
 - AIR VELOCITY
 - AIR FLOW
 - BEAUFORT SCALE
 - WAVE HEIGHT
 - °C / °F TEMPERATURE
 - AIR VOLUME



RANGE SPECIFICATION

AIR VELOCITY MEASUREMENT	RANGE	RESOLUTION	ACCURACY
M/S (Meter Per Second)	0.40~45.00	0.1 m/s	± (2.0%+0.1m/s)
Km/H (Kilometer Per Hour)	1.40~162.0	0.1 km/hr	± (2.0%+0.1km/h)
Ft/Min (Feet Per Minute)	80.00~8860	0.1 ft/min	± (2.0%+1ft/min)
Knots (Nautical Miles per Hour)	0.80~88.0	0.1 knots	± (2.0%+0.1 knots)

AIR FLOW MEASUREMENT	RANGE	RESOLUTION	ACCURACY
CMM (Cubic meter per minute)	0~9999	0.001~1	-
CFM (Cubic feet per minute)	0~9999	0.001~1	-
BEAUFORT SCALE	0-12	0.1	±0.5
WAVE HEIGHT	0-14	0.1	±0.1
AIR TEMPERATURE	14-140°F	0.1°F	0.9°F
	-10-60°F	0.1°C	0.5°C

SPECIFICATION :

- SENSOR** : Air Velocity / Flow Sensor : Conventional angled vane arms with low friction ball bearing.
- TEMPERATURE SENSOR** : Precision Thermistor
- OPERATING HUMIDITY** : MAX 80% RH

POWER : 1.5V AAA x 4

- Dimension** : H156 x W67 x D28 mm
72 mm Diameter (SENSOR)
- Weight** : Approx 260 gms.
- Accessories** : USB Cable, Software, User Manual, Hard Carry Case, Sensor Probe, Software for RS232C & Battery
- Qty** : 20 Pcs. in a Box



FEATURES :

- ✓ Thermal anemometer, available for very low air velocity measurement
- ✓ Combination of hot wire and standard thermistor, deliver and precise measurements even at low air velocity.
- ✓ Microprocessor circuit assures maximum possible accuracy, provides special functions and features
- ✓ Super Large LCD with dual function meter's display, read the air velocity and Temp at the same time.
- ✓ Multi functions for air flow measurement: m/s, km/h, ft/min, MPH, Knots
- ✓ Thermistor sensor for Temp. Measurement, fast response time.
- ✓ Uploading & Keeping the Measuring datas in PC with built-in USB interface
- ✓ Telescoping probe is ideal for use in ducts and ventilation systems
- ✓ Record Maximum & Minimum reading with recall.
- ✓ Build in Temp °C / °F measurement
- ✓ Portable anemometer, digital readability & convenience of a remote probe separately.
- ✓ Slim probe, ideal for grilles & diffusers.
- ✓ Data Hold



Air Velocity



Temp



Multi Function



Data Hold



Max/Min Recall Reading



USB Interface



Low Battery Indication



Portable



Large Dual Display

ELECTRICAL SPECIFICATION

AIR VELOCITY MEASUREMENT	RANGE	RESOLUTION	ACCURACY
M/S (Meter Per Second)	0.1~25.0m/s	0.01 m/s	± (5%+1d) reading
Km/H (Kilometer Per Hour)	0.3~90.0 km/h	0.1 km/h	
Ft/Min (Feet Per Minute)	20~4925/min	1ft/min	
MPH	0.2~55.8 MPH	0.1 MPH	
Knots (Nautical Miles per Hour)	0.2~48.5 knots	0.1 knots	

TEMPERATURE	RANGE	RESOLUTION	ACCURACY
MEASURING RANGE	0°C to 50°C	0.1°C	±1°C
	32°F to 122°F	0.1°F	±1.8°F

GENERAL SPECIFICATION :

DISPLAY : 46.7MM X 60 MM
LARGE LCD DISPLAY

OPERATING HUMIDITY : LESS THEN 80% RH

POWER : 9V (6F22) x 1

Dimension : H210 x W75 x D50 mm

Weight : Approx 280 gms.

Accessories : Anemo Probe, USB Cable, Software, DC Power Supply User Manual, Hard Carry Case, Hot Wire Sensor Probe & Battery

Qty : 5 Pcs. in a Box



FEATURES :

- MEASURES VELOCITY, ACCELERATION, DISPLACEMENT, RPM, FREQUENCY FOR ACCELERATION
- LCD DIGITAL DISPLAY
- 4 DIGIT DISPLAY
- USED FOR PERIODIC MEASUREMENT, TO DETECT OUT OF BALANCE, MISALIGNMENT AND OTHER MECHANICAL FAULTS IN ROTATING MACHINES.
- EASY ON SITE VIBRATION MACHINERY FOR QUALITY CONTROL, COMMISSIONING AND PREDICTIVE MAINTENANCE PURPOSE
- INDIVIDUAL HIGH QUALITY ACCELEROMETER FOR ACCURATE AND REPEATABLE MEASUREMENT
- BEARING CONDITION MONITORING FUNCTION
- LIGHTWEIGHT AND EASY TO USE.
- WIDE FREQUENCY RANGE (10Hz TO 10kHz) IN ACCELERATION MODE.
- AC OUTPUT SOCKET FOR HEADPHONE AND RECORDING
- PC INTERFACE : RS232C FOR STATISTICS AND PRINTING
- OPTIONAL HEADPHONES FOR USE AS ELECTRONIC STETHOSCOPE
- HIGH SENSITIVITY PIEZOELECTRIC ACCELEROMETER



MEASURING RANGE :

BASIC FUNCTION		METRIC	IMPERIAL
ACCELERATION	10Hz-1kHz (Mode 1)	0.1-400.0 M/S ²	0.3-212FT/S ²
	10Hz~10kHz (Mode10)		
VELOCITY	10Hz~1kHz	0.01-400.0 MM/S TRUE RMS	0.000-16.00 INCH/S
DISPLACEMENT	10Hz~1kHz	0.001-4.000M	0.4-160.0 MIL
RPM	60-99,990 R/MIN Reading should be multiplied by 10 if the display show '10'		
FREQUENCY	1-20kHz		

POWER : AAA 1.5 x 4

Dimension	: H124 x W62 x D30 mm
Accessories	: Magnet Accelerometer, Stinger Probe (Cone), Stinger Probe (Ball) Hard Carrying Case, Manual
Qty	: 20 Pcs. in a Box.



LED Flashlight



Screen Rotate



200 Sets Storage



Velocity Measurement



Acceleration Measurement



Displacement Measurement



Auto Power Off

FEATURES :

- ENSURES PRODUCTION SAFETY AND EFFICIENCY AND PRODUCT QUALITY
- PIEZOELECTRIC ACCELERATED SENSOR
- 200 SETS STORAGE OPTION
- LED FLASH LIGHTING
- SCREEN ROTATION APPLICABLE
- MEASURE LOW/HIGH ACCELERATION VELOCITY, DISPLACEMENT
- REAL TIME VELOCITY MEASUREMENT
- 500MS REFRESH DATA EVER
- AUTO POWER OFF CUSTOMISED
- HISTORICAL DATA CAN BE VIEWED
- FREQUENCY COVERAGE OF ACCELERATION/ VELOCITY / DISPLACEMENT

SPECIFICATION

SENSOR	Piezoelectric Accelerated Sensor
ACCELERATION MEASUREMENT RANGE	0.1~199.9 m/s ² (peak value)
VELOCITY MEASUREMENT RANGE	0.1~199.9 mm/s (Real time valid value)
DISPLACEMENT MEASUREMENT RANGE	0.001~1.999 mm (Peak-peak value)
ACCURACY	±(5%+2 digits)
LOW FREQUENCY ACCELERATION MEASURING FERQUENCY RANGE	10 Hz~1 KHz
HIGH FREQUENCY ACCELERATION MEASURING FERQUENCY RANGE	1 KHz~10KHz
VELOCITY MEASURING FREQUENCY RANGE	10 Hz~1KHz
DISPLACEMENT MEASURING FREQUENCY RANGE	10 Hz~500Hz
STORAGE CAPACITY	200 Sets
DATA REFRESH TIME	500 ms
BATTERY WORKING LIFE	Beyond 4 hours without breaks
AUTO POWER OFF	4 option for auto power off

BATTERY : 2 x 1.5V AAA BATTERY

Dimension	: H176 x W54 x D25 mm
Weight	: Approx. 121 Gms.
Accessories	: Short probe, Long Probe, Lifting Rope, Manual & Battery



AC Voltage



Flashlight



Audible



Auto Power Off



1000V

FEATURES :

- TEST VOLTAGE RANGE : 90V AC TO 1000V AC**
- DISPLAY LED (FLASHING) WITH ACOUSTIC SOUND SIGNAL**
- AUTO POWER OFF**
- TIP GLOWS RED WHEN VOLTAGE PRESENT**
- BIRGHT WITH LED FLASH LIGHT**
- BATTERY LIFE: 6 HOURS CONTINUOUS USE. STANDBY FOR 1.5 YEARS**
- IP 40 PROTECTION**

POWER : 1.5V AAA x 2

Dimension	: H145 x W25 x D21 mm
Weight	: Approx 42g.
Accessories	: Battery
Qty	: 100 Pcs. in a Box



NCV



AC Voltage



Torch



Back light



Over Range Display



1000V

FEATURES :

- BAR GRAPH LCD DISPLAY
- AUTO POWER OFF
- NCV SENSOR PROBE
- RED & GREEN DOUBLE COLOUR BACKLIGHT
- SIGNAL INTENSITY FLOUR LEVEL
- IP40 PROTECTION
- BREAK POINT DETECTION
- ZERO LIVE LINE DETECTION
- SOUND LIGHT ALARM
- COMPACT & EASY TO USE

Break detect	LIVE Zero live line Identification	Sensitive switching
Lighting Flashlight	Audible and visual alarm	Two colour backlight

TECHNICAL SPECIFICATION

OPERATING VOLTAGE	
AC VOLTAGE SENSIVITY	(HIGH) 12~1000V (LOW) 48~1000V
APPLICATION ENVIRONMENT	
OPERATING TEMP	0~40°C
STORAGE TEMP	-10°C~50°C
HUMIDITY	<95%
ALTITUDE	<2000m

POWER : 1.5V AAA x 2

Dimension	: H157 x W27 x D23 mm
Weight	: Approx 32g.
Qty	: 120 Pcs. in a Box.



NCV



AC Voltage



Torch



Back light



Low Battery Indication



1000V

FEATURES :

- BAR GRAPH LCD DISPLAY
- AUTO POWER OFF
- NCV SENSOR PROBE
- SIGNAL INTENSITY FLOUR LEVEL
- IP66 PROTECTION
- BREAKPOINT JUDGEMENT
- COMPACT & EASY TO USE
- ZERO LINE DETECTION
- DUAL COLOUR BACKLIGHT
- SOUND / LIGHT ALARM

 Break detect	LIVE Zero live line Identification	 Sensitive switching
 Lighting Flashlight	 Audible and visual alarm	 Two colour backlight

TECHNICAL SPECIFICATION

OPERATING VOLTAGE	
AC VOLTAGE	12~1000V, 50/60Hz
APPLICATION ENVIRONMENT	
OPERATING TEMP	0~40°C
STORAGE TEMP	0~50°C
HUMIDITY	<95%
ALTITUDE	<2000m

POWER : 1.5V AAA x 2

Dimension	: H157 x W27 x D23 mm
Weight	: Approx 55g.
Qty	: 200 Pcs. in a Box.



FEATURES :

- ✓ Sound Indicator
- ✓ Light Indicator
- ✓ 9 Voltage Settings
- ✓ Self Check & Shutdown
- ✓ Bright LED Visual INDICATION with Buzzer
- ✓ Protection class IP65
- ✓ Non-Contact Test Detection by Proximity
- ✓ Light Weight, Robust and Compact, Convenient to Carry
- ✓ The Max Detection Range can be 500kV.
- ✓ The reminding distance is about 5cm when testing, rated test voltage range is 240V-500kV.
- ✓ The corresponding voltage reminder distance for other range tests is about 20cm
- ✓ Compatible with most insulating rods
- ✓ Shockproof Structure, Strong anti-interference ability
- ✓ Detects live voltage, Cable faults, tracking, field wires, cable tracking,
- ✓ Detects residual voltage or induced voltage
- ✓ 8 Voltage detection levels
- ✓ Manual Shifts within ranges
- ✓ The measured wire is facing the side with lighting lamp



AC Voltage



NCV



Low Battery Indication



Sound Indicator



Light Indicator



Auto Shutdown



Shock Proof



TECHNICAL SPECIFICATION

Functions	Voltage detection, Cable Tracking
Frequency Range	40 ~ 70Hz
Voltage Ranges	240V, 3.3kV, 11kV, 33kV, 66kV, 110kV, 220kV, 330kV, 500kV
OFF TEST	T240V-69kV-115kV-138kV-230kV-500kV
MEASUREMENT METHOD	Non Contact Test

POWER : 9V (6F22) x 1

Dimension	: H169 x W115 x D115 mm
Weight	: Approx. 365g.
Accessories	: Manual, Instrument, Battery
Qty	: 20 Pcs. in a Box.

Wire location : The measured wire is facing the side with lighting lamp



FEATURES :

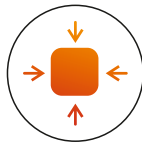
- COMPACT, EASY-TO-WEAR AND CONVENIENT TO USE**
- INDOOR AND OUTDOOR USE**
- PSD SENSOR DETECTS AC HIGH VOLTAGE AUTOMATICALLY AND GENERATES WARNING**
- AUDIO & LED INDICATIONS**
- ABLE TO SENSE A WIDE VARIETY OF AC HIGH VOLTAGE SYSTEMS**
- LOW POWER CONSUMPTION**



50 Hrs. of Continuous use



Emits A Loud Alarm & Flashing LED Indicators



Compact



Light weight & Comfortable



Integrates Seamlessly with A Hard Hat



APPLICATION

SPECIFICATION :

Initial Warning Distance	<ul style="list-style-type: none"> • 220V~380V : 0.1m~0.4m • 10kV : 0.m~1.2m • 35kV : 1m~2m
Frequency	50 / 60 Hz
Sound	75dB at 1m
Power	AAA 1.5V x 2
Size	W52 x H60 x D21 mm
Weight	Approx 42g.



Capacitance



Resistance



Diode



Continuity



Low Battery
Indication

FEATURES :

- 3000 COUNT
- AUTO POWER OFF
- AUTO & MANUAL RANGING
- AUTO SCANNING

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
3nF	1pF	±2.5% of rdg±3 digits
30nF		
300nF		
3μF		
30μF		
300μF		
3mF	±3.0% of rdg±3 digits	
30mF		

RESISTANCE

RANGE	RESOLUTION	ACCURACY
300Ω	0.1Ω	±1.0% of rdg±2 digits
3kΩ		
30kΩ		
300kΩ		
3MΩ		
30MΩ		

DIODE CHECK

OPEN VOLTAGE	2.8V
TESTING CURRENT	2mA

POWER : 3V CR2032*1

Dimension	: H175 x W32x D20 mm
Weight	: Approx 40g.
Accessories	: Hard Box, User Manual & Battery.
Qty	: 100 Pcs. in a Box.



FEATURES :

- OPERATIONAL VOLTAGE : 200~480V (3 PHASE AC)
- OPERATIONAL FREQUENCY : 20Hz~400Hz
- CHECKS PRESENCE OF OPEN PHASE
- CHECKS PHASE SEQUENCE WITH LED & BUZZER SIMULTANEOUSLY
- BATTERY FREE DESIG
- 5 LED LIGHT-EMITTING PROMPTS
- LIGHT WEIGHT, EASILY PORTABLE
- LIMIT SUPPORT VOLTAGE 4000V/MINUTE
- NON-CONTACT DETECTION
- SAFE & RELIABLE WITH CLIPS, EASILY INVOLVE THE TERMINALS OF THE CONTROL PANEL

CHECK METHOD

MEASURING RESULT	OPEN PHASE CHECK BY LED	PHASE ORDER CHECK BY LED	BUZZER	Dimension : H80 x W59 x D23 mm
Current Phase (CW)	All 3 Orange LED are Lit	Green LED is Lit	Intermittent Beep	Weight : Approx 200g.
Reverse Phase (CCW)	All 3 Orange LED are Lit	Red LED is Lit	Continuous Beep	Accessories : Double Insulated Cords, approx 1 meter long, measuring Leads, Meter Pen, Measuring Shelf Band, Alligator Clips, Carrying case & Manual,
Open Phase (One Phase Only)	Orange LED for Open Phase are off	Both Green & Red LED are off	Continuous Beep	



- Back light
- A, C & F Weighting
- 4 Digit Display
- Max Hold
- 20-12,500Hz
- 30dB-130dB
- Adjustable Alarm Level
- Low Battery Indication
- USB Interface
- Auto Power Off
- 30 Groups Memory Save

FEATURES :

- MEASURES & MANAGE SOUNDS FROM VARIETY OF SOURCES (MEASURES FROM 30dB ~ 130dB)
- 4 DIGIT DISPLAY
- PARAMETER MEASURED : SOUND LEVEL, LP, LMAX, LEQ, LN
- AUTO SHUT DOWN, CAN BE SET BETWEEN 1-9 MIN
- WITH ALARM SET AND ALARM OUTPUT
- PERMITS CHOICE OF 'A' 'C' OR 'FLAT' WEIGHTING AND 'SLOW' / 'FAST' RESPONSE TIMES.
- DC OUTPUT 0~1.3 V 10mV / dB
- AUTO RANGE SELECTION & DIGITAL DISPLAY
- COMMUNICATE WITH PC COMPUTER FOR STATISTICS, PRINTING AND ANALYSING BY THE OPTIONAL CABLE AND THE SOFTWARE FOR RS323C INTERFACE
- MEMORY : 30 GROUPS WITH MEASURING CONDITION
- ALARM VALUE SET : 30-130dB
- ALARM OUTPUT : LED AND OPTIONAL RELAY CONTACT (NC)
- 94dB AT 1KHz (SINUSOIDOL) IN FULL CALIBRATION
- METER CALIBRATE BY ND9

MEASUREMENTS PARAMETERS :

- LP : Sound Level
- Leq : Equivalent Continuous A sound level
- Lmax : Maximum Sound Level
- LN : Percent of all reading over alarm set

SPECIFICATION

FREQUENCY RANGE		20Hz ~ 12500Hz
TESTING RANGE	LP	30~130 dB (A Weighting)
		35~130 dB (C Weighting)
		40~130 dB (F Weighting)
	LEQ	30~130 dB (10 Seconds, 1 Min, 5 Min, 10 Min, 15 Min, 30 Min, 1 Hours, 8 Hours, 24 Hours)
	LN	0~100%
RESOLUTION		0.1dB
ACCURACY		1dB

POWER : 4 x 1.5V AAA (UM-4) Battery

Dimension	: H236 x W63x D26 mm
Weight	: Approx. 170g.
Accessories	: Main Unit, Hard Carrying Case, Wind Muffler, Screwdriver, USB Cable, Adaptor, Software, Tripod (Optional), User Manual
Qty	: 20 Pcs. in a Box.



- 31.5Hz~8KHz
- 30dB~130dB
- USB Interface
- A & C Weighting
- Selectable Response Time
- Recording Function
- Time & Date Display
- Data Logger Function
- Low Battery Indication
- Auto Power Off
- 4 Digit Display
- Data Hold
- Back light
- MAX / MIN Record
- Potentiometer Calibration
- Real Time Data
- Adjustable Alarm Level
- 262100 Memory Save
- Over / Under Range Display
- Tripod

FEATURES :

- MEASURES & MANAGE SOUNDS FROM VARIETY OF SOURCES (MEASURES FROM 30dB ~ 130dB)
- 4 DIGIT LCD WITH A RESOLUTION OF 0.1dB
- MAX / MIN RECORD
- OVER RANGE / UNDER RANGE DISPLAY
- TIME, DATA TRANSMISSION DISPLAY
- A & C WEIGHTING
- SELECTABLE RESPONSE TIME : FAST / SLOW
- ANALOG AC/DC OUTPUTS FOR CONNECTION TO FREQUENCY ANALYZER OR X-Y SHAFT RECORDER.
- PC REAL TIME MONITORING, RECORDING & MEMORY
- DATA LOGGING FUNCTION
- ADJUSTABLE ALARM LEVELS
- AUTO POWER OFF
- METER MEMORY : 262100 READING
- DATA HOLD
- USB COMPUTER INTERFACE (ADVANCE SOFTWARE PROGRAM FOR ALL WINDOW)

SPECIFICATION

FREQUENCY RANGE	31.5Hz ~ 8kHz
RESOLUTION	0.1dB
ACCURACY	±1.4dB
DYNAMIC RANGE	50dB
MEASURING LEVEL RANGE	Low: 30dB~80dB
	Med: 50dB~100dB
	High : 80dB~130dB
	Auto: 30dB~130dB
TIME WEIGHTING	Fast : (125mS); Slow : (1s)
MICROPHONE	½ inch electret condenser microphone
ANALOG OUTPUT	AC/DC Output
DATA RECORDING	AC=1Vrms; DC=10V/dB
DISPLAY UPDATE	2 times/sec

POWER : 9V (6F22) x 1

Dimension	: H252 x W66x D33 mm
Weight	: Approx.
Accessories	: Main Unit, Hard Carrying Case, Wind Muffler, Screwdriver, USB Cable, Adaptor, Software, Tripod (Optional), User Manual
Qty	: 10 Pcs. in a Box.



- Back light
- Temp
- Data Hold
- Humidity Unit
- MAX/MIN/AVG Record
- Wet Bulb Temperature
- Dew Point Temperature
- 99 Group Data Store
- Automatic Shutdown
- Low Battery Indication

FEATURES :

- LARGE SCREEN LCD & BACKLIGHT
- MAX/MIN/AVERAGE RECORD
- WET BULB / DEW POINT TEMPERATURE VIEW
- DATA HOLD
- DATA SAVE / RECORD / DELETE
- AUTO POWER OFF
- 99 GROUP DATA STORE
- HIGH PRECISION TEMPERATURE AND HUMIDITY SENSOR

TECHNICAL DATA :

BASIC FUNCTION	RANGE	RESOLUTION	ACCURACY
TEMPERATURE	-20.0°~60.0°C	0.1°C	0.0°C ~ 45.0°C ±1.5°C (32°F ~ 113°F) ±1.0°C / 2.0°F others ±1.5°C / 3.0°F
	-4.0°~140.0°F	0.1°F	
HUMIDITY	0.0%~99.9%RH	0.1%	20%~80%±3.0%RH Other ±4.0% RH
WET BULB	-20.0°~60.0°C	0.1°C	0.0°C ~ 45.0°C ±1.5°C (32°F ~ 113°F) ±1.0°C / 2.0°F others ±1.5°C / 3.0°F
	-4.0°~140.0°F	0.1°F	
DEW POINT	-50.0°~60.0°C	0.1°C	0.0°C ~ 45.0°C ±1.5°C (32°F ~ 113°F) ±1.0°C / 2.0°F others ±1.5°C / 3.0°F
	(-58.0°~140.0°F	1°F	

POWER : AAA 1.5 x 3

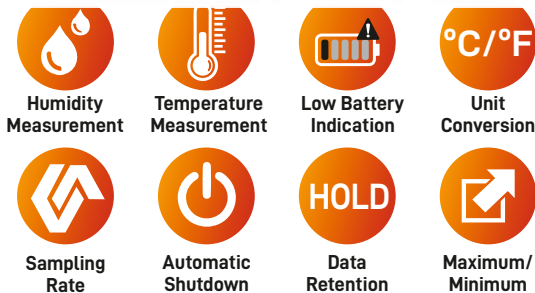
Dimension	: H184 x W60x D29 mm
Weight	: Approx. 170 Gms.
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 40 Pcs. in a Box.

AUTO POWER OFF IN 30 MINS.



FEATURES :

- THE LARGE, EASY TO READ BACKLIT LCD INCLUDES PRIMARY AND SECONDARY DISPLAYS PLUS NUMEROUS STATUS INDICATION
- LARGE DUAL DIGITAL LCD DISPLAY WITH FUNCTION INDICATION
- FAST RESPONSE FOR HUMIDITY MEASUREMENT
- MAX / MIN / RELATIVE VALUE
- DATA HOLD & MAX HOLD FUNCTION
- AUTO POWER OFF
- SAMPLING RATE : 2.5 SAMPLE PER SECOND
- °C / °F UNIT SWITCHING



SPECIFICATION :

FUNCTION	RANGE & SPECIFICATION	ACCURACY
HUMIDITY	5.0 TO 98.0% RH	±3.5% RH
TEMPERATURE (K TYPE)	-20.0 TO 199.9°C	3.0% READING +4°C
	-20.0 TO 1000°C	
	-4.0 TO 199.9°F	3.0% READING +7°F
	-4.0 TO 1832°F	

POWER : 9V (6F22) X 1

Dimension	: H150 x W72 x D35 mm
Weight	: Approx. 210g.
Accessories	: Carrying Case, Battery & TP-01 Probe, User Manual
Qty	: 30 Pcs. in a Box.

SMART OSCILLOSCOPE GRAPH MULTIMETER

DSO-1008S



Performance with Precision



A ≈
AC / DC Current

V ≈
AC / DC Voltage

Torch

Ω
Resistance

+
Capacitance

Battery
Low Battery Indication

Diode

Continuity

NCV
NCV

Full Waveform Measurement

OL
Over Range Display

CAT III
600V

FEATURES :

- 3 IN 1**
 - DIGITAL MULTIMETER
 - DIGITAL OSCILLOSCOPE
 - ELECTRIC TEST PEN
- 5999 COUNTS**
- AUTOMATIC MEASUREMENT**
- 2.8 TFT COLOUR SCREEN**
- TRUE RMS**
- FULL WAVE MEASUREMENT**
- 2000 mAH LITHIUM DIRECT CHARGE**
- TRYRISTOR**
- SAVE DATA & EXPORT TO COMPUTER**
- AUTO REAL TIME COLLECTION OF WAVE FORMS**

OSCILLOSCOPE

CHARACTERISTICS		EXPLANATION
Bandwidth		10MHz
Sampling Frequency		48MSa/s
Input	Coupling	DC,AC
	Impedance	10M
	Ratio	x1, x10
	Max voltage	±300V
Horizontal	Sampling rate	1.5 Sa/s-48Sa/s
	Sweep	100ns/div-20s/div
	Time base accuracy	20PPM
	sampling depth	64KB
Verticle	sensitivity	20mV/div-100V/div
	low frequency response	>10Hz
	Rise Time	<10ns
	Gain accuracy	±3%
Measure	Automatic measurement	Frequency, Priod, Peak to Peak Max, Min, RMS value
Trigger	Trigger Mode	Automatic Normal, single shot
	Triger Edge	Rising edge, falling edge

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
60mV	0.01 mV	±1.0% of rdg ±3 digit
600mV	0.1 mV	±0.8% of rdg ±3 digits
6V	0.001V	
60V	0.01V	±1.0% of rdg ±5 digits
600V	0.1V	

AC / DC CURRENT

RANGE	RESOLUTION	ACCURACY
6A	0.001A	±1.2% of rdg±3 digits
10A	0.01A	

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
100nF	0.01nF	±5.0% of rdg±20 digits
1000nF	0.1nF	
10µF	0.001µF	±4.5% of rdg±5 digits
100µF	0.01µF	
1000µF	0.1µF	
10mF	0.001mF	±5.0% of rdg±10 digits
100mF	0.01mF	

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
60mV	0.01 mV	±1.2% of rdg ±5 digit
600mV	0.1 mV	±1.0% of rdg ±3 digits
6V	0.001V	
60V	0.01V	±1.2% of rdg ±5 digits
600V	0.1V	

RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±1.2% of rdg±5 digits
6kΩ	0.001kΩ	±1.0% of rdg±3 digits
60kΩ	0.01kΩ	
600kΩ	0.1kΩ	±1.2% of rdg±5 digits
6MΩ	0.001MΩ	
60MΩ	0.01MΩ	

Dimension : H187 x W74 x D40.5 mm
Weight : Approx. 269 Gms.
Accessories : Test Lead, USB Charger & User Manual.

DIGITAL STORAGE OSCILLOSCOPE

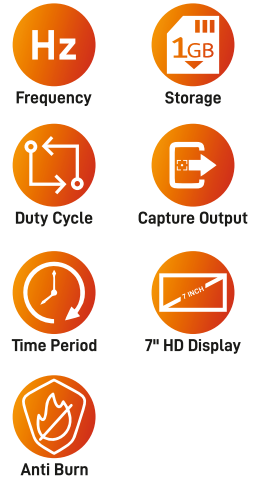
DSO-10100S



Performance with Precision



MODEL	BAND WIDTH	REAL-TIME
DSO-10100S	100MHz	1GS/s



FEATURES :

- 2 IN 1 DUAL CHANNEL INPUT.
- TFT LCD DISPLAY
- SIGNAL GENERATOR 100MHz*2 ANALOG BANDWIDTH
- 7 INCH TFT LCD DISPLAY
- 1GSa/S REAL TIME SAMPLING RATE
- BUILT IN DDS FUNCTION SIGNAL GENERATOR
- ANALYSE SPECTRAL CHARACTERISTIC OF SIGNAL

- INTELLIGENT ANTI BURN FUNCTION
- BUILT IN 1 GB STORAGE SPACE
- SCREEN BRIGHTNESS & BACKGROUND GRID ADJUSTABLE
- USB INTERFACE TO TRANSFER, SAVE & ANALYSE
- VPP / VPEAK / MAX/MIN/AVG
- FREQUENCY, DUTY CYCLE, TIME, PERIOD
- INTELLIGENT DECODING ALGORITHM

PULSE WITH TRIGGER	
Vertical Sensitivity	50mV/div~500V/div
Horizontal Time base Range	50S/div ~ 10nS/div
Trigger Sensitivity	1V
Trigger Level Scope	Normal ± 5 div away from screen centre EXT $\pm 3V$, EXT /5* $\pm 15v$
Trigger Mode	Single, Normal, Auto
Trigger Edge	Rising Edge / Falling Edge
Coupling	AC/DC
Maximum Test Voltage	40V(1xprobe), 400V(10xprobe)

POWER	100-240V ACRMS, 45-440Hz, CAT II
Power Consumption	To be less then 30VA
Fuse	F1.6AL, 250V; Fuse are on power board in the unit
Dimension	H310 x W145 x D70 mm
Weight	Approx. Gms.
Accessories	100M Probe*2, USB Charger, User Manual
Qty	10 Pcs. in a Box.

MEASUREMENT		
Cursor	Manual Mode	Voltage Difference (V) between cursors; Time Difference (T) between cursors; Reciprocal of $T(1/)$
	Tracing Mode	Voltage & Time of waveform point it is allowed to display cursor during automatic measurement.
Automatic Measurement	Peak Value, amplitude, the maximum value, the minimum value, top value, bottom value, average value, root-m frequency, cycle rise time, descend time, positive pulse width negative pulse width, positive duty cycle, negative duty cycle.	
Mathematical operation	+, -, x, %	
Stored waveform	built in 1 GB storage space, can store up to 1000 screen pictures + 1000 group of waveform data 240K bit	
LCD	7 INCH	800 x 400
Lissajou's figure	Phase location difference	$\pm 3^\circ$ degrees
Reading resolution		6 bit
Trigger Sensitivity		<30V rms (Typical Precision : 51PPM (+word))



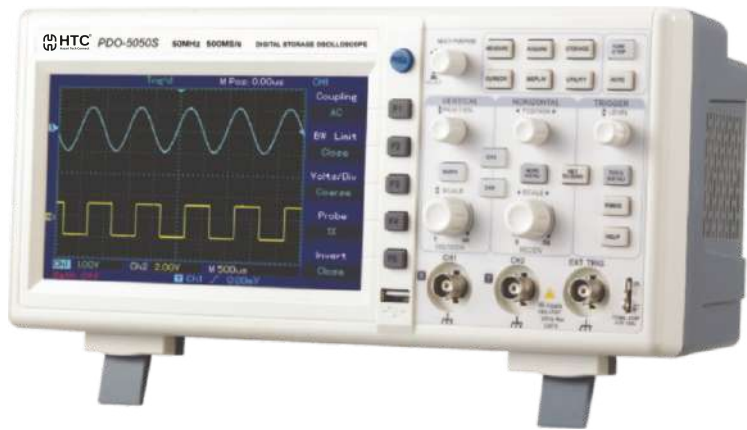
MODEL	BAND WIDTH	REAL-TIME
DSO-20100S	1X-5MHz	1GS/s
	10X-100MHz	



FEATURES :

- 100MHz analog bandwidth*2 (1X=5MHz,10X=100MHz).
- Touchscreen, High definition LCD
- Dual Channel, Flat Panel Oscilloscope
- Real time GSa sampling rate
- One-button waveform storage and screenshot.
- FFT display function, can analyze the spectral characteristics of the signal.
- Built in 6000mAh rechargeable lithium battery, fully charged for 4 hours of continuous use at the highest screen brightness.
- Advance analysis capabilities
- Flexible user interface including touch
- Manual cursor measurement
- At any time, the waveform display (pause function) is frozen.
- Background grid brightness adjustment.
- Easy to carry.
- USB interface, data can transferred on computer
- Complete Trigger function (single / normal automatic) for periodic / non periodic analog signals.
- Intelligent anti-burn, 1X can withstand up to 400V withstand voltage

MEASUREMENT	
Stored waveform	Built-in 1 Gb Storage Space
Display	7 inch - 800*480
Lissajou's Figure	Phase Location Difference
Power Supply	1*Lithium battery , 6000mAh(Included)
PULSE WITH TRIGGER	
Vertical Sensitivity	50mV/div~500V/div
Horizontal Time Base Range	50S/div ~ 10nS/div
Trigger Mode	Auto, Single, Normal
Trigger Edge	Rising Edge & Falling Edge
External Trigger Voltage	0~40V
Coupling Mode	AC/DC
Input Resistance	1Ω
Maximum Test Voltage	40V (1 X Probe), 400V (10 X Probe)
Dimension	H310 x W145 x D70 mm
Weight	Approx. Gms.
Accessories	100M Probe*2, USB Charger, User Manual
Qty	20 Pcs. in a Box.



FEATURES :

- ✓ **BAND WIDTH : 50MHz • REAL TIME : 1GS/s**
- ✓ **2 CHANNELS, WIDE VERTICAL RANGE : 1 mv/div~20v/div**
- ✓ **7 INCH WIDE SCREEN LCD DISPLAY**
- ✓ **THE NEW INTERFACE STYLE**
- ✓ **SUPPORT PLUG-AND-PLAY USB STORAGE DEVICE.**
- ✓ **USB DRIVE SYSTEM SOFTWARE UPGRADE**
- ✓ **STORAGE OF WAVEFORM SETUP AND INTERFACE WAVEFORM**
- ✓ **UNIQUE WAVEFORM RECORD AND REPLAY FUNCTION**
- ✓ **PORTABLE OSCILLOSCOPE**
- ✓ **MULTI FREQUENCY SQUARE WAVE OPTIONAL, OUTPUT STANDARD SQUARE WAVE 10Hz, 100Hz, 1kHz, 10kHz**
- ✓ **VARIOUS PARAMETER MEASUREMENT & WAVEFORM RECORDING**
- ✓ **5000 WFMS/S WAVEFORM CAPTURE RATE**
- ✓ **AUTOMATIC WAVEFORM & STATE SETTING**
- ✓ **AUTOMATIC CURSOR TRACKING MEASUREMENT FUNCTION**
- ✓ **BUILT IN FFT SOFTWARE FUNCTION**

TRIGGER

Trigger Sensitive	<1 div
Trigger level scope	Internal ± 5 div away from screen centre
	EXT ± 3V
	EXT/5* ± 15V
(Typical) precision of trigger level for signal of which rise Time or Descend Time is not less then 20ns	Internal ± 5 div away from screen centre
	EXT ± 3V
	EXT/5* ± 15V
Pre-trigger ability	Normal mode /scanning mode, pre-trigger/delay with adjustable pre-trigger depth
Inhibition scope	80ns-1.5s
(Typical) level set to 50%	Operation if frequency of input signal is not less than 50Hz

EDGE TRIGGER

Edge type	Ascend, descend, ascend & descend
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PULSE WITH TRIGGER

Trigger mode pulse with scope	To be more then, less than or equivalent to positive/negative pulse width 20ns-10s
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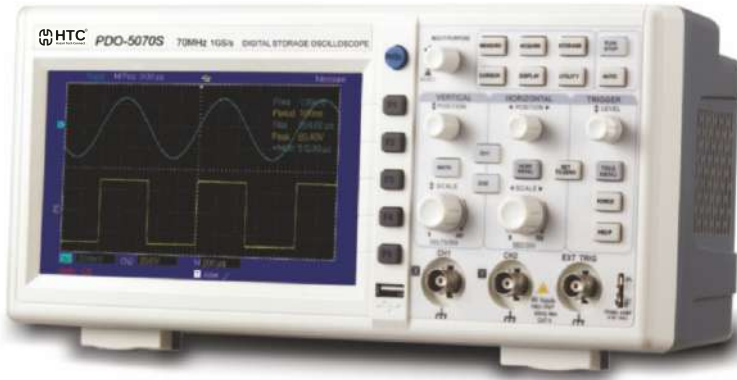
TRIGGER FREQUENCY METER*

Reading resolution	6-bit
Trigger sensitivity	<30Vrms
(Typical) precision	±51ppm (1 word)

MEASUREMENT

Cursor	Manual Mode	Voltage Difference (V) between cursors; Time Difference (T) between cursors; Reciprocal of $\Delta T(1/\Delta)$
	Tracing Mode	Voltage & Time of waveform point it is allowed to display cursor during automatic measurement.
Automatic Measurement	Peak Value, amplitude, the maximum value, the minimum value, top value, bottom value, middle value, average value, root-mean square, overshoot, preshoot, frequency, cycle rise time, descend time, positive pulse width, negative pulse width, positive duty cycle, negative duty cycle and delay	
Mathematical operation	+, -, x, %	
Stored waveform	20 groups of waveform and 20 kinds of setup	
FFT	Window Sampling point	Hanning, Hamming, Blackman, Rectangle 1024 point
Lissajou's figure	Phase location difference	±3° degrees

POWER	100-240V ACRMS, 45-440Hz, CAT II
Power Consumption	To be less then 30VA
Fuse	F1.6AL, 250V; Fuse are on power board in the unit
Dimension	W320 x W150 x D130 mm
Weight	Nt. Wt: 2.5 Kgs. • Gr. Wt: 4 Kgs
Accessories	100M Probe*2, USB Charger, User Manual
Qty	2 Pcs. in a Box.



FEATURES :

- ✓ **BAND WIDTH : 70MHz • REAL TIME : 1GS/s**
- ✓ **2 CHANNELS, WIDE VERTICAL RANGE : 1 mv/div~20v/div**
- ✓ **7 INCH WIDE SCREEN LCD DISPLAY**
- ✓ **THE NEW INTERFACE STYLE**
- ✓ **SUPPORT PLUG-AND-PLAY USB STORAGE DEVICE.**
- ✓ **USB DRIVE SYSTEM SOFTWARE UPGRADE**
- ✓ **STORAGE OF WAVEFORM SETUP AND INTERFACE WAVEFORM**
- ✓ **UNIQUE WAVEFORM RECORD AND REPLAY FUNCTION**
- ✓ **PORTABLE OSCILLOSCOPE**
- ✓ **MULTI FREQUENCY SQUARE WAVE OPTIONAL, OUTPUT STANDARD SQUARE WAVE 10Hz, 100Hz, 1kHz, 10kHz**
- ✓ **VARIOUS PARAMETER MEASUREMENT & WAVEFORM RECORDING**
- ✓ **5000 WFMS/S WAVEFORM CAPTURE RATE**
- ✓ **AUTOMATIC WAVEFORM & STATE SETTING**
- ✓ **AUTOMATIC CURSOR TRACKING MEASUREMENT FUNCTION**
- ✓ **BUILT IN FFT SOFTWARE FUNCTION**

TRIGGER		
Trigger Sensitive	<1 div	
Trigger level scope	Internal	± 5 div away from screen centre
	EXT	± 3V
	EXT/5*	± 15V
(Typical) precision of trigger level for signal of which rise Time or Descend Time is not less than 20ns	Internal	± 5 div away from screen centre
	EXT	± 3V
	EXT/5*	± 15V
Pre-trigger ability	Normal mode /scanning mode, pre-trigger/delay with adjustable pre-trigger depth	
Inhibition scope	80ns-1.5s	
(Typical) level set to 50%	Operation if frequency of input signal is not less than 50Hz	
EDGE TRIGGER		
Edge type	Ascend, descend, ascend & descend	
PULSE WITH TRIGGER		
Trigger mode	To be more then, less than or equivalent to pulse with scope	
Trigger sensitivity	To positive/negative pulse width 20ns-10s	
TRIGGER FREQUENCY METER*		
Reading resolution	6-bit	
Trigger sensitivity	<30Vrms	
(Typical) precision	±51ppm (1 word)	

MEASUREMENT		
Cursor	Manual Mode	Voltage Difference (V) between cursors; Time Difference (T) between cursors; Reciprocal of $\Delta T(1/\Delta)$
	Tracing Mode	Voltage & Time of waveform point it is allowed to display cursor during automatic measurement.
Automatic Measurement	Peak Value, amplitude, the maximum value, the minimum value, top value, bottom value, middle value, average value, root-mean square, overshoot, preshoot, frequency, cycle rise time, descend time, positive pulse width, negative pulse width, positive duty cycle, negative duty cycle and delay	
Mathematical operation	+, -, x, %	
Stored waveform	20 groups of waveform and 20 kinds of setup	
FFT	Window Sampling point	Hanning, Hamming, Blackman, Rectangle 1024 point
Lissajou's figure	Phase location difference	±3° degrees

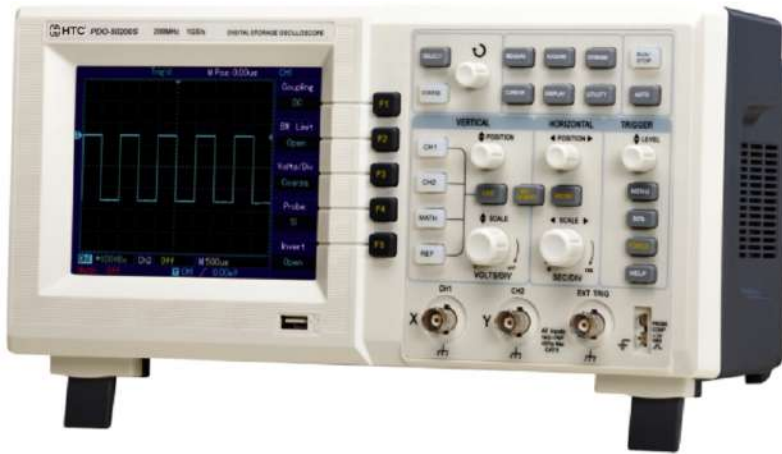
POWER	100-240V ACRMS, 45-440Hz, CAT II
Power Consumption	To be less than 30VA
Fuse	F1.6AL, 250V; Fuse are on power board in the unit
Dimension	W320 x W150 x D130 mm
Weight	Nt. Wt: 2.5 Kgs. • Gr. Wt: 4 Kgs
Accessories	100M Probe*2, USB Charger, User Manual
Qty	2 Pcs. in a Box.

DIGITAL STORAGE OSCILLOSCOPE

PDO-50200S



Performance with Precision



FEATURES :

- ✓ 200MHz BAND WIDTH
- ✓ 2 CHANNELS, WIDE VERTICAL RANGE : 1 mv/div~20v/div
- ✓ 7 INCH WIDESCREEN LCD DISPLAY
- ✓ THE NEW INTERFACE STYLE
- ✓ SUPPORT PLUG-AND-PLAY USB STORAGE DEVICE.
- ✓ USB DRIVE SYSTEM SOFTWARE UPGRADE
- ✓ STORAGE OF WAVEFORM SETUP AND INTERFACE WAVEFORM
- ✓ UNIQUE WAVEFORM RECORD AND REPLAY FUNCTION
- ✓ PORTABLE OSCILLOSCOPE
- ✓ MULTI FREQUENCY SQUARE WAVE OPTIONAL, OUTPUT STANDARD SQUARE WAVE 10Hz, 100Hz, 1kHz, 10kHz
- ✓ VARIOUS PARAMETER MEASUREMENT & WAVEFORM RECORDING
- ✓ 5000 WFMS/S WAVEFORM CAPTURE RATE
- ✓ AUTOMATIC WAVEFORM & STATE SETTING
- ✓ AUTOMATIC CURSOR TRACKING MEASUREMENT FUNCTION
- ✓ BUILT IN FFT SOFTWARE FUNCTION

TRIGGER

Trigger Sensitive	<1 div
Trigger level scope	Internal ± 5 div away from screen centre
	EXT ± 3V
	EXT/5* ± 15V
(Typical) precision of trigger level for signal of which rise Time or Descend Time is not less than 20ns	Internal ± 5 div away from screen centre
	EXT ± 3V
	EXT/5* ± 15V
Pre-trigger ability	Normal mode /scanning mode, pre-trigger/delay with adjustable pre-trigger depth
Inhibition scope	100ns-1.5s
(Typical) level set to 50%	Operation if frequency of input signal is not less than 50Hz

EDGE TRIGGER

Edge type	Ascend, descend, ascend & descend
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PULSE WITH TRIGGER

Trigger mode pulse with scope	To be more than, less than or equivalent to positive/negative pulse width 20ns-10s
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TRIGGER FREQUENCY METER*

Reading resolution	6-bit
Trigger sensitivity	<30Vrms
(Typical) precision	±51ppm (1 word)

MEASUREMENT

Cursor	Manual Mode	Voltage Difference (V) between cursors; Time Difference (T) between cursors; Reciprocal of $\Delta T(1/\Delta)$
	Tracing Mode	Voltage & Time of waveform point it is allowed to display cursor during automatic measurement.
Automatic Measurement	Peak Value, amplitude, the maximum value, the minimum value, top value, bottom value, middle value, average value, root-mean square, overshoot, preshoot, frequency, cycle rise time, descend time, positive pulse width, negative pulse width, positive duty cycle, negative duty cycle and delay	
Mathematical operation	+, -, x, %	
Stored waveform	20 groups of waveform and 20 kinds of setup	
FFT	Window Sampling point	Hanning, Hamming, Blackman, Rectangle 1024 point
Lissajou's figure	Phase location difference	±3° degrees

POWER	100-240V ACRMS, 45-440Hz, CAT II
Power Consumption	To be less than 30VA
Fuse	F1.6AL, 250V; Fuse are on power board in the unit
Dimension	W320 x W150 x D130 mm
Weight	Nt. Wt: 2.5 Kgs. • Gr. Wt: 4 Kgs
Accessories	100M Probe*2, USB Charger, User Manual
Qty	2 Pcs. in a Box.



- Back light
- HOLD
Data Hold
- MAX / MIN / AVG
MAX / MIN / AVG Function
- REC
Record Mode
- Data Retention
- OL
Over Range Display
- Auto Power Off
- Low Battery Indication

FEATURES :

- BACKLIGHT LCD DISPLAY
- DATA HOLD
- MAX / MIN / AVG FUNCTION
- NUMERICAL RESET & DATA RETENTION
- RECORD MODE
- EQUIPPED WITH SIMPLE TUBE CONNECTION
- AUTO POWER OFF
- 11 PRESSURE RANGES
 - inH2O
 - Psi
 - Mbar
 - KPa
 - inHg
 - mmHg
 - ozin²
 - ftH2O
 - cmH2O
 - kgcm²
 - bar

ACCURACY SPECIFICATION

UNIT	RANGE	RESOLUTION	ACCURACY
inH2O	± 55.40	0.01	± 0.3%FS
PSI	± 2.000	0.001	
Mbar	± 137.8	0.1	
KPa	± 13.79	0.01	
inHG	± 0.407	0.001	
mmHG	± 103.4	0.1	
ozin ²	± 32.00	0.01	
ftH2O	± 4.612	0.001	
cmH2O	± 140.6	0.1	
kgcm ²	± 0.140	0.001	
bar	± 0.137	0.001	
Maximum Pressure PSI	10 PSI		
Linearity / Hysteresis	± 0.1%FS		
Repeatability	± 0.25%FS		
Pressure Connector	1/8" (3.18mm) QUICK CONNECT		
Over Range Indication	ERR1 OR ERR2		

POWER : 9V (6F22) x 1

Dimension	: H140x W20 x D50 mm
Weight	: Approx 120 gms.
Accessories	: Canvas ba, Soft Carry Case, ϕ 4.5mm Mental Gas Mouth 2 Pcs, ϕ 5.0mm*30mm Soft Tube 2 Pcs, ϕ 5.0mm*30mm Hard Tube 2 Pcs, User Manual & Battery



- Back light
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MAX / MIN / AVG
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FEATURES :

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 - ozin²
 - ftH2O
 - cmH2O
 - kgcm²
 - bar

ACCURACY SPECIFICATION

UNIT	RANGE	RESOLUTION	ACCURACY
inH2O	± 138	0.1	± 0.3%FS
PSI	± 5.000	0.001	
Mbar	± 344.7	0.1	
KPa	± 34.47	0.01	
inHG	± 1.018	0.001	
mmHG	± 258.5	0.1	
ozin ²	± 80	1	
ftH2O	± 11.53	0.01	
cmH2O	± 351.5	0.1	
kgcm ²	± 0.351	0.001	
bar	± 0.344	0.001	
Maximum Pressure PSI	20 PSI		
Linearity / Hysteresis	± 0.1%FS		
Repeatability	± 0.25%FS		
Pressure Connector	1/8" (3.18mm) QUICK CONNECT		
Over Range Indication	ERR1 OR ERR2		

POWER : 9V (6F22) x 1

Dimension	: H140x W20 x D50 mm
Weight	: Approx 120 gms.
Accessories	: Canvas ba, Soft Carry Case, ϕ 4.5mm Mental Gas Mouth 2 Pcs, ϕ 5.0mm*30mm Soft Tube 2 Pcs, ϕ 5.0mm*30mm Hard Tube 2 Pcs, User Manual & Battery



- Back light
- Data Hold
- MAX / MIN / AVG Function
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FEATURES :

- BACKLIGHT LCD DISPLAY
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 - ozin²
 - ftH2O
 - cmH2O
 - kgcm²
 - bar

ACCURACY SPECIFICATION

UNIT	RANGE	RESOLUTION	ACCURACY
inH2O	± 415.2	0.1	± 0.3%FS
PSI	± 15.00	0.01	
Mbar	± 1034	1	
KPa	± 103.4	0.1	
inHG	± 30.54	0.01	
mmHG	± 775.7	0.1	
ozin ²	± 240.0	0.1	
ftH2O	± 34.60	0.01	
cmH2O	± 1055	1	
kgcm ²	± 1.055	0.001	
bar	± 1.034	0.001	
Maximum Pressure PSI	100 PSI		
Linearity / Hysteresis	± 0.1%FS		
Repeatability	± 0.25%FS		
Pressure Connector	1/8" (3.18mm) QUICK CONNECT		
Over Range Indication	ERR1 OR ERR2		

POWER : 9V (6F22) x 1

Dimension	: H140x W20 x D50 mm
Weight	: Approx 120 gms.
Accessories	: Canvas ba, Soft Carry Case, ϕ 4.5mm Mental Gas Mouth 2 Pcs, ϕ 5.0mm*30mm Soft Tube 2 Pcs, ϕ 5.0mm*30mm Hard Tube 2 Pcs, User Manual & Battery



- Back light
- Data Hold
- MAX / MIN / AVG Function
- Record Mode
- Data Retention
- Over Range Display
- Auto Power Off
- Low Battery Indication

FEATURES :

- BACKLIGHT LCD DISPLAY
- DATA HOLD
- MAX / MIN / AVG FUNCTION
- NUMERICAL RESET & DATA RETENTION
- RECORD MODE
- EQUIPPED WITH SIMPLE TUBE CONNECTION
- AUTO POWER OFF
- 11 PRESSURE RANGES
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 - Mbar
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 - mmHg
 - ozin²
 - ftH2O
 - cmH2O
 - kgcm²
 - bar

ACCURACY SPECIFICATION

UNIT	RANGE	RESOLUTION	ACCURACY
inH2O	± 830	1	± 0.3%FS
PSI	± 30.00	0.01	
Mbar	± 2608	1	
KPa	± 206.8	0.1	
inHG	± 61.08	0.01	
mmHG	± 1551	1	
ozin ²	± 480.0	0.1	
ftH2O	± 69.2	0.01	
cmH2O	± 2109	1	
kgcm ²	± 2.109	0.001	
bar	± 2.068	0.001	
Maximum Pressure PSI	100 PSI		
Linearity / Hysteresis	± 0.1%FS		
Repeatability	± 0.25%FS		
Pressure Connector	1/8" (3.18mm) QUICK CONNECT		
Over Range Indication	ERR1 OR ERR2		

POWER : 9V (6F22) x 1

Dimension	: H140x W20 x D50 mm
Weight	: Approx 120 gms.
Accessories	: Canvas ba, Soft Carry Case, ϕ 4.5mm Mental Gas Mouth 2 Pcs, ϕ 5.0mm*30mm Soft Tube 2 Pcs, ϕ 5.0mm*30mm Hard Tube 2 Pcs, User Manual & Battery



- Back light
- Data Hold
- MAX / MIN / AVG Function
- Record Mode
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FEATURES :

- BACKLIGHT LCD DISPLAY
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 - ftH2O
 - cmH2O
 - kgcm²
 - bar

ACCURACY SPECIFICATION

UNIT	RANGE	RESOLUTION	ACCURACY
inH2O	± 2078	1	± 0.3%FS
PSI	± 75.00	0.01	
Mbar	± 5168	1	
KPa	± 517.1	0.1	
inHG	± 15.00	0.01	
mmHG	± 3878	1	
ozin ²	± 1200	0.1	
ftH2O	± 173.0	0.01	
cmH2O	± 5272	1	
kgcm ²	± 5.250	0.001	
bar	± 5.138	0.001	
Maximum Pressure PSI	100 PSI		
Linearity / Hysteresis	± 0.1%FS		
Repeatability	± 0.25%FS		
Pressure Connector	1/8" (3.18mm) QUICK CONNECT		
Over Range Indication	ERR1 OR ERR2		

POWER : 9V (6F22) x 1

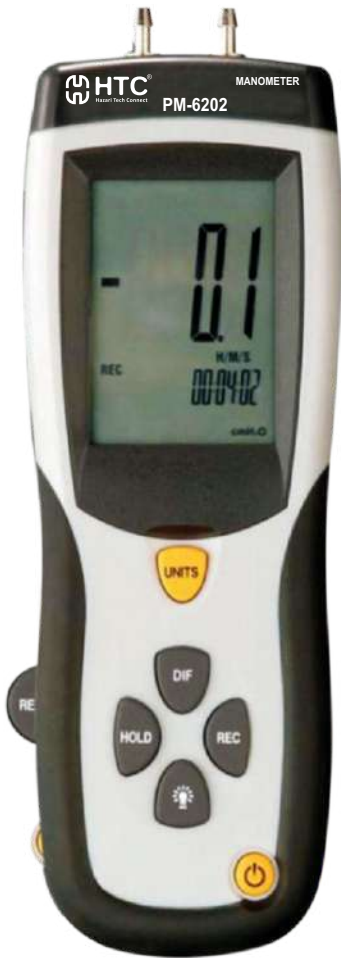
Dimension	: H140x W20 x D50 mm
Weight	: Approx 120 gms.
Accessories	: Canvas ba, Soft Carry Case, ϕ 4.5mm Mental Gas Mouth 2 Pcs, ϕ 5.0mm*30mm Soft Tube 2 Pcs, ϕ 5.0mm*30mm Hard Tube 2 Pcs, User Manual & Battery

DIGITAL MANOMETER

PM-6202 / 6205



Performance with Precision



Back light



Data Hold



MAX / MIN / AVG Function



Over Range Display



USB Computer Interface



Low Battery Indication



Auto Power Off

FEATURES :

- LARGE DUAL LCD WITH BACKLIGHT
- DATA HOLD
- MAX / MIN / AVG VALUE WITH RELATIVE TIME STAMP
- AUTO POWER OFF
- USB COMPUTER INTERFACE
- ZERO ADJUSTABLE, OFFSET & DIFFERENT FUNCTION

ACCURACY SPECIFICATION

UNIT	RANGE	RESOLUTION	ACCURACY
inH2O	± 138.3	0.01	± 0.3%FSO (25°C)
PSI	± 5.000	0.001	
Mbar	± 344.7	0.1	
KPa	± 34.47	0.01	
inHG	± 10.18	0.001	
mmHG	± 258.5	0.1	
ozin2	80.00	0.01	
ftH2O	± 11.53	0.001	
cmH2O	± 351.5	0.1	
kgcm2	± 0.351	0.001	
bar	± 0.344	0.001	
Maximum Pressure PSI	20 PSI		
Linearity / Hysteresis	± 0.29%FSO		
Repeatability	± 0.2%FS (Max ± 0.5% fso)		
Pressure Range	±5 PSI		
Over Range Indication	Err1		
Under Range Indication	Err2		
Response Time	0.5 Second Typical		

POWER : 9V (6F22) x 1

Dimension	: H140x W20 x D50 mm
Weight	: Approx 180 gms.
Accessories	: Hard Carry Case, User Manual, Battery, Mental Gas Mouth 2 Pcs, 5.0mm*30mm Soft Tube, 5.0mm*30mm Hard Tube, USB Cable, Power Supply
Qty	: 40 Pcs. in a Box



FEATURES :

- 3½ DIGIT
- 1,999 COUNTS
- WIDE RANGE :
FROM : 0.1 LUX TO 2,00,000 LUX
- ACCURATE TEST, FAST RESPONSE
- AUTO ZERO ADJUSTMENT
- DATA HOLD
- AUTO POWER OFF
- SYMBOL & UNIT DISPLAY,
EASY TO READ



Counts



Data Hold



Over Range Display



Accurate Test



Fast Response



Auto Power Off



Low Battery Indication

TECHNICAL SPECIFICATION

RANGE	LUX	0~2,00,000 LUX
	FC	-
RESOLUTION		0.1 LUX
ACCURACY		+5% OF READING ± 10% FS
RECEIVING LIGHT		SILICON PHOTO ELECTRICITY DIODE

POWER : 9V (6F22)

Dimension	: H130 x W95 x D30 mm (Meter) H100 x W60 x D27 mm (Sensor)
Weight	: Approx 300g.
Accessories	: User Manual, Battery & Sensor
Qty	: 40 Pcs. in a Box.

LUX METER LX-102A



FEATURES :

- 3½ DIGIT**
- 1,999 COUNTS**
- WIDE RANGE :**
LUX : 0.1 LUX TO 2,00,000
FC : 0~20,000 FC
- ACCURATE TEST, FAST RESPONSE**
- AUTO ZERO ADJUSTMENT**
- DATA HOLD**
- AUTO POWER OFF**
- SYMBOL & UNIT DISPLAY, EASY TO READ**



Counts



Data Hold



Peak Hold



Over Range Display



Accurate Test



Fast Response



Auto Power Off



Low Battery Indication

TECHNICAL SPECIFICATION

RANGE	LUX	0~2,00,000 LUX
	FC	0~20,000 FC
RESOLUTION		0.1 LUX
ACCURACY		+5% OF READING ± 10% FS
RECEIVING LIGHT		SILICON PHOTO ELECTRICITY DIODE

POWER : 9V (6F22)

Dimension	: H130 x W95 x D30 mm (Meter) H100 x W60 x D27 mm (Sensor)
Weight	: Approx 300g.
Accessories	: User Manual, Battery & Sensor
Qty	: 40 Pcs. in a Box.



Backlight



Data Hold



Range
1000~200000



Bargraph



Self Dified
Light Source



Over Range
Display



Low Battery
Indication



Automatic
Shutdown

FEATURES :

- DATA HOLD
- MIN / MAX / RELATIVE FUNCTION
- AUTO POWER OFF
- AUTO / MANUAL RANGE
- LARGE LCD DISPLAY
- BAR GRAPH
- SELF DEFINED LIGHT SOURCE COEFFICIENT

TECHNICAL SPECIFICATION

RANGE	LUX	1000, 10000, 200000 LUX
	FC	100, 1000, 20000 FC
RESOLUTION	LUX: <1000:0.1 LUX ; >1000:1LUX FC: <100:0.1 FC ; <1000:0.1FC; >1000:1FC	
ACCURACY	±(3%+5 LUX) AT 2854°K INCANDESCENT LAMPS ±(6%+5 LUX) OTHERS COSINE ANGLE DEVIATION CHARACTERISTIC 30° ±2%; 60° ±6%; 80° ±25%;	
CALIBRATION	CALIBRATED TO A STANDARD INCANDESCENT LAMP AT COLOUR TEMPERATURE 2854°K	
SENSOR	SILICON PHOTO DIODE AND SPECTRAL RESPONSE FILTER	

POWER : 9V (6F22)

Dimension	: H130 x W95 x D30 mm (Meter) H100 x W60 x D27 mm (Sensor)
Weight	: Approx 300g.
Accessories	: User Manual, Battery & Sensor



FEATURES :

- 3-3/4 digit LCD with high speed 40 segment bar graph.
- Light-measuring levels ranging form 0.1Lux~0.1kLux/0.01FC~0.01kFC, repeatedly.
- High accuracy and rapid response.
- Data-hold function for holding measuring values.
- Unit and sign display for easy reading.
- Automatic zeroing.
- Meter corrected for spectral relative efficiency.
- Correction factor need not be manually calculated for non-standard light sources.
- Short rise and fall times.
- Peak-hold function for tracing the peak signal of light pulse with least duration 10µs and keep it.
- Capable of selecting measuring mode in Lux or FC scale alternatively.
- Auto power off 15minutes or disable Auto Power Off.
- Maximum and minimum measurements.
- Relative reading .
- Easy to read large backlit display.
- USB output connect with PC.
- 4 Level ranging.
- 99 values in memory ,that could be read on the meter.
More than 16000 values records datalogger.



TECHNICAL SPECIFICATION

RANGE	LUX	400, 4000, 40000 and 400000 Lux
	FC	40.00FC, 400.0FC, 4000FC, 40.00kFC
RESOLUTION	0.1 Lux / 0.01 FC	
ACCURACY	±3% rdg±0.5%f.s. (<10,000Lux); ±4% rdg±10d. (>10,000Lux)	
SPECTRAL RESPONSE	CIE Photopic (CIE human eye response curve).	
SPECTRAL ACCURACY	CIE V function f1'<6%	
COSINE RESPONSE	f2' <2%	
REPEATABILITY	±3%	
PHOTO DETECTOR	One silicon photo diode and spectral response filter.	
SAMPLING RATE	1.3 times/sec of analog bar-graph indication; 1.3times/sec of digital display. Datalogger sampling could be setup.	

POWER : 9V (6F22)

Meter Dimension	: H170 x W80 x D40 mm
Photo Detector	: H115 x W60 x D20 mm
Weight	: Approx 390g.
Accessories	: Carry Case, Instruction Manual & Battery
Qty	: 10 Pcs. in a Box.



FEATURES :

- 3½ DIGIT
- 1,999 COUNTS
- SOLAR RADIATION MEASUREMENT
- OPTIMAL INCIDENT ANGLE FOR THE SOLAR PANEL
- CONVENIENT, NO NEED TO ADJUST, DATA DISPLAYED CLEARLY
- MEASURABLE LIGHT SOURCES, INCLUDING ALL VISIBLE LIGHT
- SELECT EITHER W/M² OR BTU / (FT²*H) UNITS¹.
- STABLE FOR LONG USE.
- MAX / MIN PEAK HOLD FUNCTION
- AUTO POWER OFF
- COMPASS FUNCTION, EASY TO KNOW THE DIRECTION



Counts



Data Hold



MAX / MIN Function



Compass



Large LCD Display



Solar Radiation Measurement



Over Range Display



Auto Power Off

TECHNICAL SPECIFICATION

RANGE	1999 W/m ² 634BTU (ft ² x h)
RESOLUTION	1W/m ² , 1 BTU / (ft ² *h)
ACCURACY	±10W/m ² or 5% ±BTU/(ft ² x h) or ±5%
REPEATABILITY	±2%
TEMPERATURE CHARAC.	±0.1%
SENSOR	ULTRAVIOLET PHOTO DIODE WITH FILTER
SAMPLING RATE	Approx. 0.25 second
RESOLUTION	1W/m ² , 1 BTU / (ft ² *h)

POWER : 9V (6F22) x 1

Meter Dimension	: H130 x W95 x D30 mm
Sensor	: H100 x W60 x D27 mm
Weight	: Approx 300g.
Accessories	: Carry Case, Instruction Manual & Battery



Backlight



Range
1000~200000



180° Rotate



Self Defined
Light Source



Data Hold



Bargraph



MAX/MIN/AVG
Record



Low Battery
Indication



Auto Power Off

FEATURES :

- DATA HOLD AUTO
- MANUAL RANGE
- MAX / MIN / AVG DATA HOLD
- RELATIVE VALUE MEASUREMENT
- 180 DEGREE ROTABLE PROBE
- LED TYPE : RED / BLUE / GREEN / YELLOW / PURPLE
- SELF DEFINED LIGHT SOURCE
- SELF DEFINED LIGHT SOURCE COEFFICIENT
- LCD DISPLAY WITH BAR-GRAPH
- AUTO POWER OFF
- LOW BATTERY INDICATION

SPECIFICATIONS :

RANGE	LUX : 1000, 10000, 200000, FC : 100, 1000, 20000
ACCURACY	±(3% +5 Lux) (at 2854°K incandescent lamps) ±(6%+5 Lux) Others Cosine angle deviation characteristics 30° ±2%; 60° ±6%; 80° ±25%;
CALIBRATION	Calibrated to a standard incandescent lamp at colour temperature 2854°K
RESOLUTION	LUX : <1000:0.1LUX; ≥1000:1LUX FC: <100:0.1FC; <1000:0.1FC; ≥1000:1FC
SENSOR	Silicon photo-diode and spectral response filter
OPERATING CONDITIONS	Temperature : 0~40°C, Humidity : <80%RH Attitude : <2000m
STORAGE CONDITION	Temperature : 10~50°C, Humidity : <80%RH Attitude : <2000m
SAMPLING RATE	Approx. 2 times per second
SPECIAL RANGE	320~730nm
AUTO POWER OFF	10 Minutes
POWER	3 x 1.5V AAA (Lr03) batteries

Dimension	: H190 x W60 x D33 mm
Weight	: Approx 142 gms Including Battery
Accessories	: User Manual & Soft Carry Case
Qty	: 40 Pcs. in a Box.
Safety Rating	: EN61326-1



Dual Display



Data Memory
99 Groups



Compact



Unit Conversion
Function



USB Support



Push & Pull
Force Test



Backlight



Auto Power Off

FEATURES :

- HIGH ACCURACY AND HIGH RESOLUTION
- DIGITAL DISPLAY WITH NO GUESSING OR ERROR
- 4 MEASUREMENT UNIT FOR SELECTION AND CONVERSION : N, Kg, Lb, G
- PEAK VALUE HOLD FUNCTION
- DATA MEMORY FUNCTION : CAN MEMORIZE 99 GROUP OF DATA
- DATA OUTPUT FUNCTION : MEASUREMENT DATA CAN BE TRANSMITTED TO COMPUTER BY USB CABLE OR BLUETOOTH ADAPTATOR
- AUTO POWER OFF AND MANUAL POWER OFF
- REAL TIME DATA TRANSMISSION FUNCTION
- UNIT CONVERSION FUNCTION
- DUAL DISPLAY
- LIGHTWEIGHT & COMPACT SIZE

TECHNICAL SPECIFICATION

FORCE RANGE	RESOLUTION	ACCURACY
± 5 Kg _f	0.01 Kg _f	±0.2%FS, ± 1 DIGIT
± 5000gf	1gf	
± 49N	0.1 N	
± 11 Lbf	0.01 Lbf	

DISPLAY : 2 REVERSED 4 DIGIT LED

BACKLIGHT : BLUE BACKLIGHT

SAFE LOAD : 150% FS (BUZZER ALARM OVER 110%FS)

SURROUNDING : NO VIBRATION SOURCE OR CORROSIVE MEDIUM AROUND

POWER OFF : 10 MINUTES AUTO POWER OFF, MANUAL POWER OFF

POWER : 1.5 X 2 AA (UM-3) OR 6V DC

Dimension	: H211 x W80 x D36 mm
Weight	: Approx 390g.
Accessories	: Digital Force Gauge, Pulling Hook, Flat Tip, Cone Tip, V-shaped groove Tip, V-shaped wedge Tip, Screw Rod, Cap Nut, User Manual, Battery & Hard Carry Case
Qty	: 20 Pcs. in a Box.



Dual Display



Data Memory
99 Groups



Compact



Unit Conversion
Function



USB Support



Push & Pull
Force Test



Backlight



Auto Power Off

FEATURES :

- HIGH ACCURACY AND HIGH RESOLUTION
- DIGITAL DISPLAY WITH NO GUESSING OR ERROR
- 3 MEASUREMENT UNIT FOR SELECTION AND CONVERSION : N, Kg, Lb
- PEAK VALUE HOLD FUNCTION
- DATA MEMORY FUNCTION : CAN MEMORIZE 99 GROUP OF DATA
- DATA OUTPUT FUNCTION : MEASUREMENT DATA CAN BE TRANSMITTED TO COMPUTER BY USB CABLE OR BLUETOOTH ADAPTOR
- AUTO POWER OFF AND MANUAL POWER OFF
- REAL TIME DATA TRANSMISSION FUNCTION
- UNIT CONVERSION FUNCTION
- DUAL DISPLAY
- LIGHTWEIGHT & COMPACT SIZE

TECHNICAL SPECIFICATION

FORCE RANGE	RESOLUTION	ACCURACY
± 20 Kgf	0.01 Kgf	±0.2%FS, ± 1 DIGIT
± 196 N	0.1 N	
± 44 Lbf	0.01 Lbf	

DISPLAY : 2 REVERSED 4 DIGIT LED

BACKLIGHT : BLUE BACKLIGHT

SAFE LOAD : 150% FS (BUZZER ALARM OVER 110%FS)

SURROUNDING : NO VIBRATION SOURCE OR CORROSIVE MEDIUM AROUND

POWER OFF : 10 MINUTES AUTO POWER OFF, MANUAL POWER OFF

POWER : 1.5 X 2 AA (UM-3) OR 6V DC

Dimension	: H211 x W80 x D36 mm
Weight	: Approx 390g.
Accessories	: Digital Force Guage, Pulling Hook, Flat Tip, Cone Tip, V-shaped groove Tip, V-shaped wedge Tip, Screw Rod, Cap Nut, User Manual, Battery & Hard Carry Case
Qty	: 20 Pcs. in a Box.



Dual Display



Data Memory
99 Groups



Compact



Unit Conversion
Function



USB Support



Push & Pull
Force Test



Backlight



Auto Power Off

FEATURES :

- HIGH ACCURACY AND HIGH RESOLUTION
- DIGITAL DISPLAY WITH NO GUESSING OR ERROR
- 4 MEASUREMENT UNIT FOR SELECTION AND CONVERSION : N, Kg, Lb, G
- PEAK VALUE HOLD FUNCTION
- DATA MEMORY FUNCTION : CAN MEMORIZE 99 GROUP OF DATA
- DATA OUTPUT FUNCTION : MEASUREMENT DATA CAN BE TRANSMITTED TO COMPUTER BY USB CABLE OR BLUETOOTH ADTAPTOR
- AUTO POWER OFF AND MANUAL POWER OFF
- REAL TIME DATA TRANSMISSION FUNCTION
- UNIT CONVERSION FUNCTION
- DUAL DISPLAY
- LIGHTWEIGHT & COMPACT SIZE

TECHNICAL SPECIFICATION

FORCE RANGE	RESOLUTION	ACCURACY
±100 Kgf	0.01 Kgf	±0.2%FS, ± 1 DIGIT
±980 N	0.1 N	
±220 Lbf	0.1 Lbf	

DISPLAY : 2 REVERSED 4 DIGIT LED

BACKLIGHT : BLUE BACKLIGHT

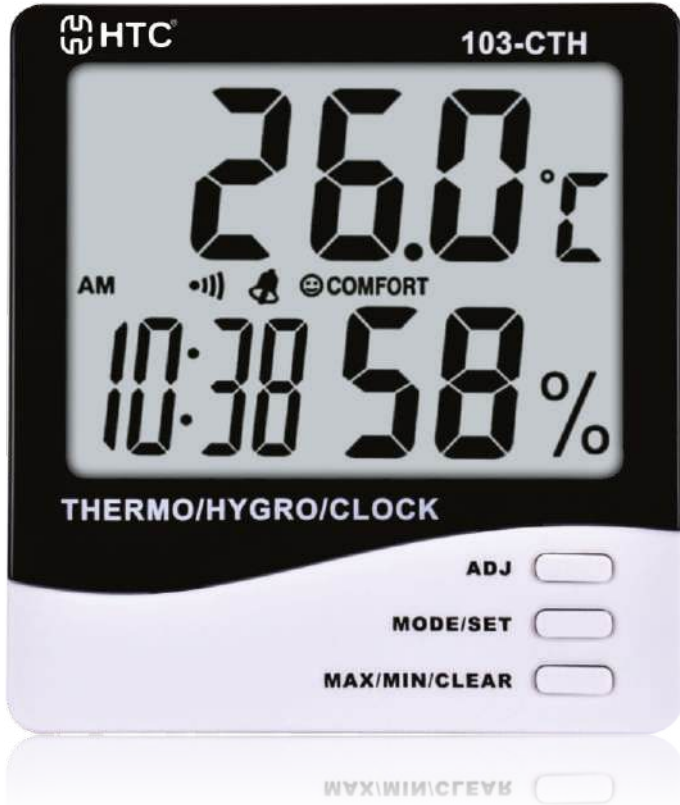
SAFE LOAD : 150% FS (BUZZER ALARM OVER 110%FS)

SURROUNDING : NO VIBRATION SOURCE OR CORROSIVE MEDIUM AROUND

POWER OFF : 10 MINUTES AUTO POWER OFF, MANUAL POWER OFF

POWER : 1.5 X 2 AA (UM-3) OR 6V DC

Dimension	: H211 x W80 x D36 mm
Weight	: Approx 390g.
Accessories	: Digital Force Guage, Pulling Hook, Flat Tip, Cone Tip, V-shaped groove Tip, V-shaped wedge Tip, Screw Rod, Cap Nut, User Manual, Battery & Hard Carry Case
Qty	: 30 Pcs. in a Box.



Easy Operation



Accurate



Quick Measurement



Alarm



Temp



Clock



Max / Min Features



Large Display

FEATURES :

- BIG DISPLAY THERMO / HYGROMETER
- LARGE CLOCK 2 LINE LCD DISPLAY
- COMFORT INDEX DISPLAY : COMFORT, WET, DRY
- SIMULTANEOUS INDICATION : TEMPERATURE, HUMIDITY, CLOCK
- MAX / MIN TEMPERATURE DATA STORE FUNCTION
- CALENDAR FUNCTION WITH ALARM CLOCK & 12/24 HOUR DISPLAY
- TEMPERATURE FUNCTION : °C / °F

SPECIFICATION :

TEMPERATURE RANGE	-50°C~70°C (-58°F~158°F)
ACCURACY	±1.0°C OR ±1.8°F
RESOLUTION	0.1°C / 0.1°F
HUMIDITY RANGE	10%RH~99%RH
HUMIDITY ACCURACY	±5% (35%~75%) else ±10%

POWER : 1.5V AAA x 1

Dimension	: H105 x W97 x D22 mm
Accessories	: Carrying Case, Battery & User Manual
Qty	: 100 Pcs. in a Box.

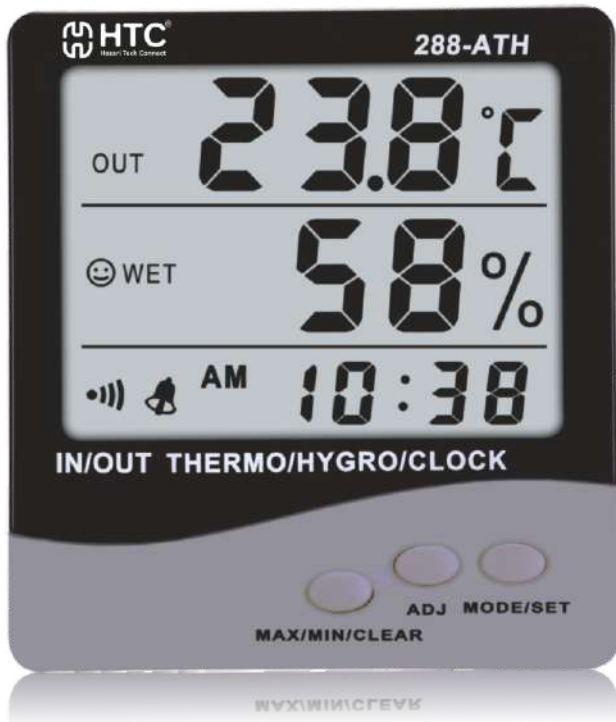
THERMO HYGROMETER

288-ATH

INDOOR / OUTDOOR THERMO HYGROMETER



Performance with Precision



Easy Operation



Accurate



Quick Measurement



Temp



Alarm



Clock



Max / Min Features



Large Display

FEATURES :

- USED FOR BOTH INDOOR / OUTDOOR TEMPERATURE MEASUREMENT
- BIG DISPLAY INDOOR-OUTDOOR THERMO / HYGROMETER
- LARGE CLOCK 3 LINE LCD DISPLAY
- COMFORT INDEX DISPLAY : COMFORT, WET, DRY
- SIMULTANEOUS INDICATION : TEMPERATURE, HUMIDITY, CLOCK
- MAX / MIN TEMPERATURE DATA STORE FUNCTION
- CALENDAR FUNCTION, WITH ALARM CLOCK & 12/24 HOUR DISPLAY
- TEMPERATURE FUNCTION : °C / °F
- SENSOR LENGTH : 3 METERS
- CALENDAR DISPLAY

SPECIFICATION :

TEMPERATURE RANGE	-50°C~70°C (-58°F~158°F)
ACCURACY	±1.0°C OR ±1.8°F
RESOLUTION	0.1°C / 0.1°F
HUMIDITY RANGE	10%RH~99%RH
HUMIDITY ACCURACY	±5% (35%~75%) else ±10%

POWER : 1.5V AAA x 1

Dimension	: H105 x W97 x D22 mm
Accessories	: Carrying Case, Battery & User Manual
Qty	: 70 Pcs. in a Box.

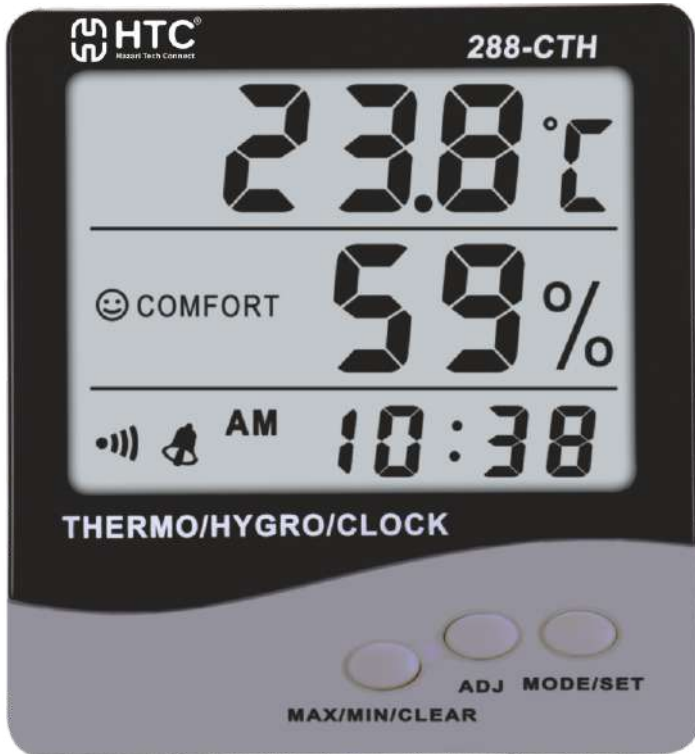
THERMO HYGROMETER

288-CTH

INDOOR / OUTDOOR THERMO HYGROMETER



Performance with Precision



Easy Operation



Accurate



Quick Measurement



Alarm



Temp



Clock



Max / Min Features



Large Display

FEATURES :

- BIG DISPLAY THERMO / HYGROMETER
- LARGE CLOCK 3 LINE LCD DISPLAY
- COMFORT INDEX DISPLAY : COMFORT, WET, DRY
- SIMULTANEOUS INDICATION : TEMPERATURE, HUMIDITY, CLOCK
- MAX / MIN TEMPERATURE DATA STORE FUNCTION
- CALENDAR FUNCTION WITH ALARM CLOCK & 12/24 HOUR DISPLAY
- TEMPERATURE FUNCTION : °C / °F









SPECIFICATION :

TEMPERATURE RANGE	-50°C~70°C (-58°F~158°F)
ACCURACY	±1.0°C OR ±1.8°F
RESOLUTION	0.1°C / 0.1°F
HUMIDITY RANGE	10%RH~99%RH
HUMIDITY ACCURACY	±5% (35%~75%) else ±10%

POWER : 1.5V AAA x 1

Dimension	: H105 x W97 x D22 mm
Accessories	: Carrying Case, Battery & User Manual
Qty	: 100 Pcs. in a Box.



-  High Accuracy CO Sensor
-  Compact
-  Large LCD Display
-  Data Hold
-  Fast Response
-  Long Battery Life
-  Audible Alarm
-  Auto Power Off

FEATURES :

- HIGH ACCURACY CO SENSOR, ACCURACY NOT AFFECTED BY HUMIDITY
- FAST RESPONSE AND STABLE READING
- SENSOR : STABILIZED ELECTROCHEMICAL GAS-SPECIFIC
- LARGE LCD DISPLAY
- COMPACT, LIGHT AND EASY TO CARRY
- LOW BATTERY CONSUMPTION WITH LONG BATTERY LIFE

SPECIFICATION

SENSOR	Stabilized electrochemical Gas-specific
MEASUREMENT RANGE	0~1000 PPM
ACCURACY	5%±10PPM
MEASUREMENT RESOLUTION	1PPM
RESPONSE TIME	<30S
ZERO DRIFT	<5PPM
REPEATABILITY	±2%
FAST SAMPLING TIME	2 times/second
LONG-TIME STABILITY	<5%/year
OPERATING CONDITION	-20~50°C; 15~90%RH
STORAGE CONDITIONS	-30~50°C; 0~80%RH
AUDIBLE ALARM	can set upper limit
AUTO POWER OFF	after 15 minutes of inactivity
TYPICAL SENSOR LIFE	about 5 years

POWER : 9V (6F22) x 1

Dimension	: H171 x W55 x D38 mm
Weight	: Approx. Gms.
Accessories	: Hard Carrying Case, User Manual & Battery
Qty	: 10 Pcs. in a Box.



Backlight



Bargraph Display



High Precision CO Sensor



T90 Reaction Time



Compact



LCD Display



Low Battery Indication



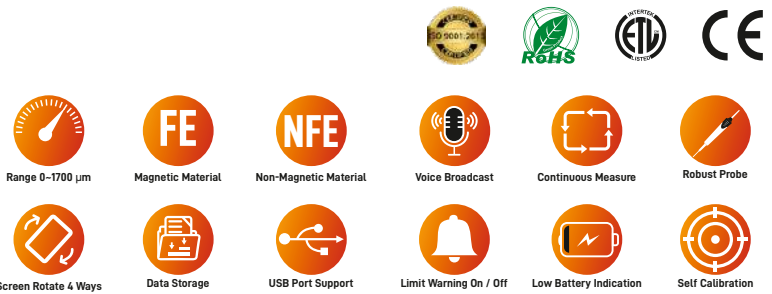
Auto Power Off

FEATURES :

- HIGH PRECISION ELECTROCHEMICAL CO SENSOR
- LARGE LCD DISPLAY WITH DIGIT & BARGRAPH
- COMPACT, LIGHT & EASY TO CARRY
- 'HOLD' CURRENT DATE
- LOW BATTERY INDICATION
- AUTO POWER OFF

SPECIFICATIONS :

- **SENSOR :**
Electrochemical Sensor
- **REACTION RANGE :**
0PPM~5000PPM
- **ACCURACY :**
0~200ppm (±20ppm)
200~2000ppm (±10ppm)
2000~5000ppm (±20ppm)
- **REACTION SENSITIVITY :**
1PPM
- **WARM-UP TIME :**
Approx 5 Sec.
- **REACTIONS TIME (T90) :**
to 90% Gas concentration in 60sec.
- **ALARM MODE :**
Visible and audible
- **OPERATING CONDITIONS :**
-10 to 50°C / 20 to 80%RH
- **STORAGE CONDITIONS :**
-10 to 50°C / 20 to 80%RH
- **BATTERIES :** 3x1.5V AAA batteries
- **SAFETY STANDARD :** EN61326-1
- **WEIGHT :** APPROX 113 gms.
- **SIZE :** H 171 x W 60 x D 33 MM
- **QTY :** 40 Pcs. in a Box



FEATURES :

- ACCURATELY MEASURE THE NON-MAGNETIC COATING THICKNESS ON MAGNETIC SURFACE
- NON-CONDUCTING COATING THICKNESS ON NON-MAGNETIC METAL SUBSTRATE SURFACE
- 2 INCHES COLOR SCREEN
- ROTATABLE SCREEN WITH FOUR DIRECTION
- BUILT-IN 850mAh LITHIUM BATTERY
- USB PORT CONNECTING PC TO EXPORT DATA
- VOICE BROADCAST
- DATA GROUPING, 8 GROUPS AND EACH 32 SETS OF DATA
- CALIBRATED DATA GROUPING, CORRESPONDING TO CALIBRATING 8 GROUPS OF BASE-METAL
- ON SCREEN SHOWS DIRECTLY THE THICKNESS OF THE COVER AND THE MATERIAL OF THE BASE-METAL
- HISTOGRAM DISPLAY
- UPPER / LOWER LIMIT WARNING FUNCTION
- RESTORING FACTORY SETTING AND CALIBRATION VALUES
- STATISTICS : THE AVERAGE (Avg), THE MAX (Max) THE MIN (Min), AND THE STANDARD DEVIATION (SDev)

TECHNICAL DATA

MEASURING RANGE	magnetic material 0~1700μm; non magnetic material 0~1700μm
RESOLUTION	0.1 μ m @ (0~99.9μm); 1 μ m @ (100~1700μm)
INDICATION ERROR	±(2+2%*H)μm @ (0~500μm) ±(2.5%*H)μm @ (500~1700μm)
MIN MEASURING AREA	magnetic material 25×25mm; non magnetic material 25×25mm
MIN CURVATURE	convexity 5mm; concave 30mm
MIN SUBSTRATE THICKNESS	magnetic material 0.2mm; non magnetic material 0.05mm

BATTERY : 3.7V 850mAh LITHIUM BATTERY

Dimension	: H120 x W52 x D26 mm
Weight	: Approx. 290 Gms.
Accessories	: Hard Carry Case, Sling, , Iron Substrate, Aluminium Substrate, Calibration Film, Manual,
Qty	: 20 Pcs. in a Box.

BATTERY SYSTEM TESTER

BM-36



Battery Test



Load Test



Start Test



Charging Test



Over Voltage Protection



Large LCD Screen

FEATURES :

- ACCURATELY PREDICTS BATTERY FAILURE TIME
- 2.4 INCHES LARGE LCD DISPLAY
- TEST THE PERFORMANCE OF 12V/24V LEAD-ACID BATTERY
- INTERNAL UNIT CONVERSION CCA/ IEC / EN / DIN
- EASY TO OPERATE AND FULL FUNCTIONAL
- BATTERY TEST : Measure the battery life
- LAOD TEST : Measure the discharge performance of the battery
- CHARGING TEST : Measure the performance of the generator
- STARTING TEST : Test the charging system of the generator

POWER : AAA 1.5 x 3

Dimension	: H140 x W65 x D30 mm
Accessories	: Soft Carry Case, User Manual & Battery
Qty	: 20 Pcs. in a Box.

SCREEN	2.4" COLOUR SCREEN
APPLICATION	12V/24V LEAD-ACID BATTERY/ ELECTRIC VEHICLE
BATTERY LIFESPAN	SHOW AS PERCENTAGE
VOLTAGE/CCA/ INTERNAL RESISTANCE	✓
START THE TEST	✓
LOAD TEST	✓
CHARGING TEST	✓
KELVIN PROBE TEST	✓
COLOUR SCREEN OPERATING SYSTEM	✓
PROTECTION INPUT FOR ANTI-POLARITY / OVER VOLTAGE / POLARITY REVERSAL	✓
BUILT IN LI-ION BATTERY	✓

GENERAL

POWER SUPPLY	3 x 1.5V AAA Battery
PRODUCT SIZE IN MM	H140 x W65 x D30 mm
STANDARD ACCESSORIES	Soft Carry Case, User Manual & Battery



FEATURES :

- ≤0.2% Error
- Engineering quantity / signal value
- Real-Time curve record view
- 2.4"TFT Full Colour HD display with backlight
- Designed for industrial control industry
- Stable appearance design.
- Supports voltage, current, frequency, thermocouple and other signal modes for both output and input.
- Provides support for independent 24V power supply
- Offers programming mode for customization
- Facilitates real-time curve visualization
- Allows for historical data recording
- Supports MODBUS communication protocol
- Enables seamless firmware upgrades
- Incorporates other powerful functions for enhanced functionality



DC Current



Portable



DC Voltage



Real Time Curve



Backlight



Analogue Source

TECHNICAL DATA

SIGNAL	RANGE	PRECISION	RESOLUTION	IMPEDANCE
Current (mA)	0~24mA	± (0.02%+0.003)	0.001mA	100Ω
Voltage (V)	0~24V	± (0.02%+0.003)	0.001V	500K
Passive (XMT)	0~24mA	± (0.02%+0.003)	0.001mA	100Ω
24V loop	0~24mA	± (0.1%+0.005)	0.00mA	100Ω
FRQ (Hz)	0~9999Hz	± 2%	5digit	1MK
mV	-10~100mV	± (0.03%+0.003)	0.01mV	2K
TC (TC-S)	0~1760°C	± (0.2%+1)	1°C	2K
TC (TC-B)	0~1810°C	± (0.5%+1)	1°C	2K
TC (TC-E)	0~990°C	± (0.2%+1)	1°C	2K
TC (TC-K)	0~1320°C	± (0.2%+1)	1°C	2K
TC (TC-R)	0~1760°C	± (0.3%+1)	1°C	2K
TC (TC-J)	0~1190°C	± (0.3%+1)	1°C	2K
TC (TC-T)	0~390°C	± (0.2%+1)	1°C	2K
TC (TC-N)	0~1290°C	± (0.2%+1)	1°C	2K
TC (WRe3/25)	0~2320°C	± (0.2%+1)	1°C	2K
TC (WRe3/26)	0~2320°C	± (0.2%+1)	1°C	2K
RES (ohm)	0~390	± (0.2%+1)	0.1Ω	/
Pt100	-200~650°C	± (0.5%+1)	0.1°C	/
Cu50	-20~150°C	± (0.5%+1)	0.1°C	/

Battery : 3000mAh

Dimension	: H111 x W81 x D27 mm
Weight	: Approx. 66g.
Accessories	: Signal Generator, Four alligator test clips, USB charger, Type C data cable, User Manual
Qty	: 30 Pcs. in a Box.



FEATURES :

- 3½ DIGIT LARGE DISPLAY
- 1,999 COUNT
- POLARITY SYMBOL
- OVER RANGE DISPLAY
- DATA HOLD
- FUNCTION PROTECTION
- ANTI-SHOCK PROTECTION
- K-TYPE THERMOCOUPLE INPUT
- HIGH STABILITY, HIGH ACCURACY
- MEASUREMENT RANGE :
-50~1300°C, -50~1999°F
- SAMPLING RATE : 2.5 TIMES/S
- MAX INPUT VOLTAGE : DC 60V / AC24V

High Accuracy	Anti Shock Protection	Data Hold	Temperature	Over Range Display	Low Battery Indication	K-TYPE Thermocouple

TECHNICAL SPECIFICATION :

RANGE	RESOLUTION	ACCURACY
-50°C~199.9°C	0.1°C	± (0.2%+1°C)
-50°F~199.9°F	0.1°F	± (0.2%+1°F)
-50°C~1000°C	1°C	± (0.3%+2°C)
1000°C~1300°C		± (0.5%+2°C)
-50°F~1000°F	1°F	± (0.3%+2°F)
1000°F~1900°F		± (0.5%+2°F)

POWER : 9V (6F22) x 1

Dimension	: H130 x W95 x D28 mm
Weight	: Approx. 240 Gsm.
Accessories	: Test Lead, TP01 Temperature Probe Manual & Battery.



01
SEC

Sensing Time

°C/°F

Temperature Unit

DATA
HOLD

Data Hold



Low Battery
Indication



Auto Power Off

FEATURES :

- 15 MIN. AUTO SHUT OFF
- 145MM. STAINLESS STEEL SENSOR PROBE
- TEMPERATURE UNIT °F/°C SELECTABLE
- DATA HOLD
- 1 SEC. NORMAL TEMPERATURE SENSING TIME
- PROTECTIVE PLASTIC SLEEVE WITH CLIP FOR STAINLESS STEEL
- LOW BATTERY INDICATOR

BASIC FUNCTION

TEMPERATURE	-50 °C~300 °C(-58 °F~572 °F)
ACCURACY	±0.5%±1 °C (±1.8 °F)
RESOLUTION	1 °C / °F
DIMENSION	H232 x W26.5 x D14.6mm
ACCESSORIES	PLASTIC BOX



FEATURES :

- ALTIMETER**
- Max / Min memory for altitude
- Altitude history and graphical display of the last 24 Hrs.
- BAROMETER**
- 24 Hrs. pressure History and Graphical display
- Pressure trend indicators.
- THERMOMETER**
- Max. / Min Memory for thermometer.
- HYGROMETER**
- Max. / Min Memory for relative humidity.
- WEATHER FORECAST**
- CALENDAR**
- ALARM CLOCK**
- COMPASS**
- CLOCK**
- FLASHLIGHT**
- BACKLIGHT**
- HISTORY / GRAPHICAL DISPLAY OF ALTITUDE LAST 24 HOURS**
- TEMP °C / °F**
- MAGNETIC DECLINATION FUNCTION**



History/Graphical display of altitude



Air Pressure Trend Indicators



Magnetic Declination Function



Max / Min Function



Back light



Alarm



Flashlight



Switchable Unit



Calendar

SPECIFICATIONS :

FUNCTION	RANGE	RESOLUTION
ALTIMETER	-700~9000 Meter -2290~29500 feet	1 Meter / Feet
BAROMETER	300hpa~1100hpa 8.84 inHg~32.44inHg	1 hpa (0.01inHg)
TEMP.	-20°C~60°C	-
HUMIDITY	20%~95%	-

Dimension	: H100 x W66 x D20 mm
Accessories	: Battery Charger, User Manual & Handy Bel
Qty	: 96 Pcs. in a Box.

FUNCTION GENERATOR

FG-2002 / FG-2010



Performance with Precision



Frequency



Waveform Output



TFT / LCD Display



Over Range Display

FEATURES :

- HIGHLY STABLE, BROADBAND AND MULTI-FUNCTION
- DIRECT DIGITAL SYNTHESIS
- STABLE, PRECISE, LOW DISTORTION SIGNALS
- POWER AMPLIFIERS
- TFT / LCD DISPLAY
- COUNTER FUNCTION
- DC/AC SUPPLY MODES
- COMPACT, EASY TO CARRY

TECHNICAL SPECIFICATION :

Frequency Range	0.1Hz-2MHz (FG-2002)
	0.1Hz-10MHz (FG-2010)
Wave Form	Sine wave, Triangle wave, Square wave, Positive and Negative sawtooth and Positive and Negative pulse
Square-wave front	0.1Hz-2MHz <100ns 0.1Hz-10MHz <35ns
Sine wave	< 1% (10Hz-100KHz)
Frequency response	0.1Hz-100 KHz $\leq \pm 0.5\text{dB}$ 100 KHz-5MHz $\leq \pm 1\text{dB}$ (LW1642) 100 KHz-2MHz $\leq \pm 1\text{dB}$ (LW1641)
TTL/ CMOS output	Level: TTL Pulse low level is no more than 0.4V, high level is no less than 3.5V. Rising time: no more than 100ns
Output	Impedance : 50 Ω \pm 10%
	Amplitude : no less than 20vp-p (Empty load)
	Attenuation : 20dB 40dB
	DC bias : 0~ \pm 10V (Continuously adjustable)
Adjustment range of symmetry:	90:10-10:90
VCF input	Input voltage : -5V-0V \pm 10%
	The maximum voltage ratio : 1000:1
	Input signal : DC-1KHz
Frequency meter	Measuring range: 1Hz-20MHz
	Input Impedance: no less than 1 M Ω /20pF
	Sensitivity: 100mVrms
	The maximum input: 150V (AC+DC) with attenuator
	Input attenuation: 20dB Measurement error: $\leq 0.003\% \pm 1\text{digit}$
The scope of adaptation of power	Voltage: 220V \pm 10 % (110V \pm 10%)
	Frequency: 50Hz \pm 2Hz (220V \pm 10%)
	Power: 10W (Optional)

Dimension	: H230 x W310 x D90 mm
Weight	: 2-3 kg.
Accessories	: Cable (50 Ω test line) 1 Pc. Cable (BNC line), Fuse 2 Pcs. Power Line 1 Pc., Instruction Manual
Qty	: 2 Pcs. in a Box.



FEATURES :

- 2.8" Colour LCD Display
- Generates thermal distribution images in real time
- Adjustable emissivity and reflected background compensation improves measurement accuracy on semi-reflective surface.
- Hot and cold spot temperature markers that guide the user to the hottest and coldest regions in the infrared heat map image.
- Visuals and heat map image alignment.
- Select colour palette.
- Image capture / video recording and save.
- Switch between infrared & Thermal image and visible image.
- Image capture save and analysis on PC offline.
- Menu can change to English, Italian, German, Russian, Japanese, Chinese
- Integrates surface temperature measurement and real time thermal image.
- Radiation coefficient may be adjusted to increase measurement accuracy of objects with half reflection surface.
- The "Non contact" modern detection technology is safe, reliable and quick.

SPECIFICATION

DISPLAY	2.8" TFT DISPLAY
IR IMAGE RESOLUTION	120 X 90
VISIBLE LIGHT IMAGE RESOLUTION	300000 PIXELS
FILED ANGLE	26° X 19°
FRAME RATE OF IMAGE THERMAL	≤25 Hz
PIXEL SIZE	12 μM
NETD	≤50mK @25°C, @F/1.1
SHORTEST FOCUS LENGTH	3.2mm
IFOV	3.75 mrad
WAVELENGTH COVERAGE	8-14 μM
FOCUS MODE	FIXED
TEMPERATURE MEASUREMENT RANGE	-20°C to +550°C (-4°F to 1022°F)
TEMPERATURE MEASUREMENT ACCURACY	±2%; ±2°C (3.6°F) or of reading
RESOLUTION	0.1°C
EMISSIVITY	ADJUSTABLE FROM 0.01 to 1.00

IMAGE DISPLAY MODE	NFRARED / VISIBLE / DUAL LIGHT FUSION
LIGHTING SUPPLEMENT	LED lighting supplement
STORAGE CAPACITY	BUILT IN 4G eMMC (About 3GB storage space available to the user)
STORE THE IMAGES/ VIDEO FORMAT	JPG/MP4
IMAGE / VIDEO EXPORT MODE	USB CONNECTION PC EXPORT
BATTERY	18650 BATTERY (18.5 x 69mm)
WORKING TIME	2-3 Hours
POWER INTERFACE	TYPE-C
AUTOMATIC POWER OFF	SELECTABLE : 5minutes / 20minutes / Not power off automatically

POWER : 2000 mAh

Dimension	: H226x W72 x D96 mm
Weight	: Approx. 389 Gms.
Accessories	: Thermal Imager, Micro USB Cable, Adaptor, User manual
Qty	: 20 Pcs. in a Box.



FEATURES :

- TFT full view color screen display
- Dual MCU processors, refresh faster
- Hot and cold point temperature markers can guide users to the areas with the highest and lowest temperature in the thermal image.
- Selectable palette
- Hybrid imaging of visual and infrared images
- Images capture saved in SD card
- SD card with 8GB memory
- Connecting PC with Type-C USB cable can read the image stored in instrument directly.
- Type-C USB cable power supply function
- Potential problems displayed on screen
- Automatic shutdown setting, which can be set in four modes.
- Easy to use and can be tested within seconds after opening.

POWER : 4*LR6 AA Battery and Type C USB

Dimension	: H198x W55 x D98 mm
Weight	: Approx. 200 Gms.
Accessories	: Thermal Imager, Micro USB Cable, Adaptor, Memory Card, Reader, Type-C cable & User manual
Qty	: 20 Pcs. in a Box.

DISPLAY	TFT DISPLAY
IR IMAGE RESOLUTION	33x33 (1089 Pixel)
VISIBLE LIGHT IMAGE RESOLUTION	300000 PIXELS
FIELD ANGLE	32°x32°
THERMAL RANGE	0.15°C /0.27°F
EMISSIVITY	Adjustable 0.1-1.0
IMAGE CAPTURE FREQUENCY	9Hz
FOCUS MODE	Fixed
PALETTE	Rainbow colour, white hot, iron red 1, iron red 2
VIEW OPTION	Blending of the visual and the infrared from full infrared to full visual in 25% steps
FILE FORMAT	BMP
STORAGE	Standard 8GB Micro SD card, Supporting upto 16 GB
IR TEMPERATURE RANGE	-20~-480°C/-4~-896°F
IR TEMPERATURE ACCURACY	>0°C: ±2% or reading ±2°C/ 3.6°F: <0°C: ±3°C/5.4°F Note : Accuracy is measured in an environment of 18-28°C



FEATURES :

- ✓ 2.8" Colour TFT LCD Display
- ✓ Integrates Surface temperature measurement and real time thermal images.
- ✓ Built-in Chargeable 18650 Lithium batteries.
- ✓ Hybrid imaging of visual and infrared images
- ✓ Selectable of Different colour Palettes
- ✓ Images capture saved in SD card
- ✓ USB connection PC export for analysis
- ✓ Micro USB Power interface
- ✓ 300000 pixels Visible light image resolution
- ✓ Menu can change to English, Italian, German, Chinese
- ✓ The “Non contact” modern detection technology is safe, reliable and quick.
- ✓ Radiation coefficient can be adjusted
- ✓ Potential problems displayed on screen
- ✓ Built in 4G eMMC

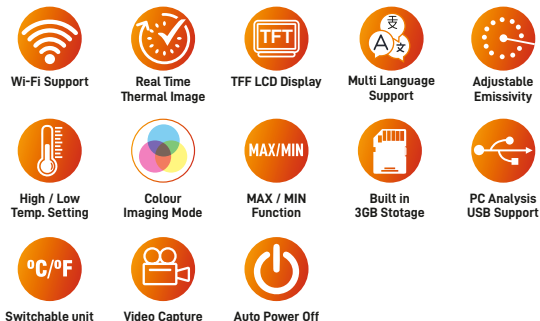
SPECIFICATION

Infrared image resolution	160x120	Emissivity	Adjustable from 0.01 to 1.00
Field angle	35°x27°	Image display mode	Infrared/visible/dual light fusion
Image PC offline analysis	Support	Lighting supplement	LED lighting supplement
Infrared detector type	Vanadium oxide is uncooled in the infrared focal plane	Storage Capacity	Built-in 4G eMMC (about 3G storage space available to the user)
Frame rate of thermal images	≤25Hz	Store the image	JPG
Pixel size	12μm	Video formats	MP4
NETD	≤50mK @25°C,@F/1.1	Battery	18650 battery (Size: 18.5×69mm)
Shortest focus length	3.2mm	Battery capacity	2000mAh
IFOV	3.75mrad	Working time	2-3 hours
Wavelength coverage	8-14μm	Power interface	Micro USB
Focus mode	Fixed	Automatic Power Off	Selectable: 5 minutes / 20 minutes / not power off automatically
Temp. measurement range	-20°C to +550°C (-4°F to 1022°F)	POWER : 2000 mAh Dimension : H226x W72 x D96 mm Weight : Approx. 389 Gms. Accessories : Thermal Imager, Micro USB Cable, Adaptor, User manual Qty : 30 Pcs. in a Box.	
Temp. measurement accuracy	±2%; ± 2° C (3.6°F) or of reading		
Resolution	0.1°C		
Temperature measurement mode	Center point / cold hot spot tracking Rainbow, iron oxide red, cold color, black & white, white & black		



FEATURES :

- Infrared & Thermal image & visible image can be switched.
- Win XP, Win7, Win8, Win10, Apple Systems compatible.
- Image registration helps users to understand infrared image captured.
- High / Low temperature can be set
- WI-FI feature is integrated into the product.
- Infrared camera integrates surface temperature measurement and real-time thermal image.
- Non-contact detection technology, carries out real time detection at high voltage, high current, high speed without attaching operator.
- Visible light camera to Increase differentiation
- 2.8 TFT colour LCD display.
- Adjustable emissivity and reflected background compensation to ensure measurement accuracy
- Built in 3GB storage, 4G eMMC
- Multi linguistic : Menu language options English / Italian / German / Russian / Japanese / Chinese
- Image & Video capture, with memory, USB support, analysis on PC offline.
- Visuals & heat map image alignment.
- 5 Colour palattes selection, for colour contrast between high & low temp.
- Switch temp reading °C / °F
- Integrates surface temp measurement & real-time thermal image.
- Central point measurement cursor to locate & accurately measure the temp of target object.
- Radiation co-efficient may be adjusted to improve accuracy of half reflection surface.
- Type-C power interface.





SPECIFICATION

Infrared Image Resolution	256 * 192
Field Angle	56° x 42°
Image PC Offline Analysis	Available
Infrared Detector Type	Vanadium oxide is uncooled in the infrared focal plane
Wi-Fi Data Transmission	Available
Image Capture Frequency	25Hz
Pixel Size	12um
NETD	<50mK@25°C@F/1.1
Shoretest Focus Length	3.2 mm
IFOV	3.75mrad
Wavelength Coverage	8-14um
Focus Mode	Fixed
Temperature Measurement Range	-20°C to 550°C (-4°F to 1022°F)
Temperature Measurement Accuracy	±2%, ±2°C (3.6°F) or of reading
Resolution	0.1°C
Temperature Measurement Mode	Center Point / Cold Hot Spot Tracking
Colour Palette	Rainbow, Iron Oxide Red, Cold Colour, Black & White
	White & Black
Emissivity	Adjustable from 0.01 to 1.00
Visible Light Image Resolution	300000 Pixel
Thermal Sensitivity	0.15°C/0.9°F
Display Screen	2.8" TFT Colour Display
Image Display Mode	Infrared / Visible / Dual light fusion
Lighting Supplement	LED Lighting Supplement
Storage Capacity	Built in 4G eMMC (about 3G storage available for user)
File / Video Formats	JPG/MP4
Image / Video Export Mode	USB Connection PC Export
Menu Language	English / Italian / German / Russian / Japanese / Chinese
Power Interface	Type-C
Automatic Power Off	Selectable : 5 min./ 20 min., not power off Automatically

- Wi-Fi Support
- Real Time Thermal Image
- TFT LCD Display
- PC Analysis USB Support
- Adjustable Emissivity
- Switchable unit
- High / Low Temp. Setting
- Colour Imaging Mode
- MAX / MIN Function
- Video Capture
- Multi Language Support
- Built in 3GB Storage
- Auto Power Off

POWER : 18650 Battery (18.5 x 69mm) 2000mAh

Dimension	: 96mm x 72mm x 226mm
Weight	: Approx. 389 Gms.
Accessories	: Thermal Imager, Type-C USB Cable, adaptor & User's Manual



Strong Load Capacity



Voltage Regulated Power Supply Symbol



Current Regulated Power Supply Symbol



Over Range Display

FEATURES :

- STRONG LOAD CAPABILITY
- LOW FAILURE RATE FOR CONTINUOUS WORK
- WARM, OVERLOAD, CURRENT LIMIT AND VARIOUS PROTECTIVE FUNCTION
- CURRENT REGULATOR POWER SUPPLY
- VOLTAGE REGULATOR POWER SUPPLY

SERIES SWITCHING POWER SUPPLY

MODEL	O/P VOLTAGE	O/P CURRENT	DISPLAY	ACCURACY
SMPS-3002	0~30V	0~2A	LED DIGIT DISPLAY	±1%±1
SMPS-3005		0~5A		
SMPS-3010		0~10A		
SMPS-6005	0~60V	0~5A		±0.5% FS
SMPS-1002	0~100V	0~2A		

THE POWER OUTPUT PARAMETER

MODEL	VOLTAGE STABILITY	CURRENT STABILITY	LOAD REGULATION	RIPPLE AND NOISE
SMPS-3002 / SMPS-3005	≤0.2%	≤0.8%	≤0.2%	≤0.1%
SMPS-3010 / SMPS-6005 SMPS-1002	≤0.5% FS	≤0.5% FS	≤0.5% FS	≤0.2% FS

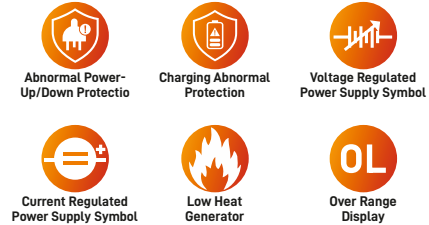
Dimension : H240 x W150 x D270 mm
Accessories : Power Cord, Test Lead, User Manual

DC REGULATED POWER SUPPLY

SMPS-3002/3003/3005/3010



Performance with Precision



FEATURES :

- CURRENT REGULATOR POWER SUPPLY
- VOLTAGE REGULATOR POWER SUPPLY
- LOW RIPPLE FACTOR
- LOW HEAT GENERATOR
- OVER VOLTAGE PROTECTION CIRCUIT
- ABNORMAL POWER UP/ DOWN PROTECTION
- CHARGING ABNORMAL PROTECTION

SPECIFICATION :

LINE REGULATION	≤0.01% +3mV
LOAD REGULATION	≤0.001% +3mV
RIPPLE AND NOISE	≤1mV rms
PROTECTION	Constant Current and Short-circuit protection
INDICATION ACCURACY	≤0.5% +1 digit
INPUT VOLATAGE	220VAC ±10%, 50Hz ±2Hz

MODEL	O/P VOLTAGE	O/P CURRENT
DC-3002	0~30V	0~2A
DC-3003		0~3A
DC-3005		0~5A
DC-3010		0~10A

Dimension	: H120 x W150 x D270 mm
Weight	:
Accessories	: Power cord, Test Lead, User Manual
Qty	: