

MEASURING INSTRUMENTS



Digital Multimeter

**MT-DMM830L
MT-DMM838**



Basic Functions	Range	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	±0.5%~±0.8%
AC Voltage	200V/600V	±1.2%
DC Current	200µA/2mA/20mA/200mA/10A	±1.0%~±3.0%
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	±0.8%~±1.0%

Special Functions	MT-DMM830L	MT-DMM838
Temperature (-20°C~1000°C)		√
Data Hold	√	√
Diode Test	√	√
Continuity Buzzer	√	√
Transistor hFE test	√	√
Back light	√	
Max. Display	1999	1999

**MT-DMM38
50000 Counts High Accuracy Multimeter**



Basic Functions	Range	Accuracy
DC Voltage	50mV/500mV/5V/50V/500V/1000V	±(0.5%+40)
AC Voltage	50mV/500mV/5V/50V/500V/1000V	±(0.03%+10)
DC Current	500µA/5000µA/50mA/500mA/5A/10A	±(0.75%+20)
AC Current	500µA/5000µA/50mA/500mA/5A/10A	±(0.15%+15)
Resistance	500Ω/5KΩ/50KΩ/500KΩ/5MΩ	(±0.1%+10)
	50MΩ	(±0.5%+10)
Capacitance	50nF/500nF/5µF/50µF	±(1%+8)
	500µF/5000µF	±(2%+8)
Line Frequency	5Hz~200KHz	±(0.006%+4)
Pulse Frequency	5Hz~2MHz	±(0.006%+4)
Duty Cycle	5%~95%	±(2%+5)
Diode	0~2.5V	±(1%+8)

General Specifications:

- Power : 1.5V AAA *6
- LCD Size: 64x42
- Product Size: 205x97x45

Standard Accessories:

- RS232 Interface Cable, Unbent Plug
- Test Lead, Manual, Battery

Special Functions:

- Display: 50000 counts
- Ture RMS Measurement DC/AC/DC+AC
- Measure
- Diode test
- Duty Cycle
- Back Light
- 360°Directions Display

Digital Multimeter

MT-DMM20B



Specifications

- DC Voltage: 200mV/2V/20V/200V/600V/400mV/4V/40V/400V/1000V $\pm(0.7\%+2)$
- AC Voltage: 200mV/2V/20V/200V/600V/4V/40V/400V/750V $\pm(1\%+3)$
- DC Current: 200 μ A/2mA/20mA/200mA/2A/10A/4000 μ A/400mA/10A $\pm(2\%+10)$
- AC Current: 200 μ A/2mA/20mA/200mA/2A/10A/4000 μ A/400mA/10A $\pm(3\%+10)$
- Resistance: 200 Ω /2K Ω /20K Ω /200K Ω /2M Ω /20M Ω /400 Ω /4K Ω /40K Ω /400K Ω /4M Ω /40M Ω $\pm(1\%+5)$
- Capacitance: 20nF/200nF/2 μ F/20 μ F/200 μ F/1000 μ F/4nF/40nF/400nF/4 μ F/40 μ F/200 μ F
- Temperature: -20 $^{\circ}$ C \sim 1000 $^{\circ}$ C $\pm(1\%+3^{\circ}$ C), -40 $^{\circ}$ C \sim 750 $^{\circ}$ C $\pm(1\%+3^{\circ}$ C), 0 $^{\circ}$ F \sim 1800 $^{\circ}$ F $\pm(1\%+5^{\circ}$ F)
- Frequency: 10HZ \sim 200KHZ

Digital Thermometer

MT-DTH6501



Specifications

- Display: 1999counts, digit is 13mm high
- Input: K type thermocouple
- Data hold
- Resolution: 1 $^{\circ}$ C, 1 $^{\circ}$ F
- Centigrade: -50 \sim -40 $^{\circ}$ C $\pm 6^{\circ}$ C, -39 \sim -20 $^{\circ}$ C $\pm 5^{\circ}$ C, -19 \sim 0 $^{\circ}$ C $\pm 3^{\circ}$ C, 0 \sim 500 $^{\circ}$ C $\pm 0.75\%$ 500 \sim -700 $^{\circ}$ C $\pm 1\%$
- Fahrenheit: -58 \sim -4 $^{\circ}$ F $\pm 7^{\circ}$ F, -3 \sim 32 $^{\circ}$ F $\pm 4^{\circ}$ F, 32 \sim 93 $^{\circ}$ F $\pm 2^{\circ}$ F 2%, 933 \sim 1382 $^{\circ}$ F $\pm 1\%$
- Power: 9V(6F22) $\times 1$
- Size: 125.5 x 72 x 27mm
- Weight: Approx. 145g (Including battery)

Infrared Thermometer

MT-ITH6520



Features

- Single dot laser targeting
- Back light
- Ambient temperature(TAMB) measurement
- Display selection
- MAX, MIN, AVG value selectable
- Hold function
- Low battery indication

Specifications:

- Measurement range: -50. C ~ 500C. (- 58. F ~ 932. F)
- TAMB measurement: 0. C ~ 50. C
- Over range indication: "OL" or "- OL"
- Resolution: 0.2
- Field of view: 8:1
- Typical Distance to Target: up to 1.5m
- Emissivity: 0.95
- Auto power off: 20S

MT-ITH6530 Industrial Infrared Thermometer



Specifications

- Measurement range : -20°C ~ 50°C: ±2.5°C
50°C ~ 537°C ± (reading×1%+1°C)
(-4°F ~ 999°F)
- Emissivity : 0.95
- Resolution: 0.3°C
- Distance spot ratio: 12:1
- Spectral Response: 8-14µm
- LCD Display: 2-temperature, 4 digits
- Alarming temperature range: 30°C ~ 535°C (86°F ~ 995°F)
- Laser Power: Less than 1mV

Special Functions

- Laser-On Indicator
- Holding indicator
- The first temperature display
- Low power indicator
- Average value indicator
- Max/Min indicator
- The second temperature display
- Measurement indicator

Clamp Meter

**MT-CLM310
MT-CLM310C**



Basic Functions	Range	Accuracy	
		MT-CLM310	MT-CLM310C
DC Voltage	1000V	± (1%+2)	± (1%+2)
AC Voltage	750V	± (1%+2)	± (1%+2)
AC Current	200mA/20A/1000A	± (2%+5)	± (2%+5)
Resistance	200Ω/2KΩ	± (1%+3)	± (1%+3)
Temperature	-40°C~750°C		± (1%+3)

Special Functions	MT-CLM310	MT-CLM310C
Diode Test	√	√
Back Light	√	√
Continuity Buzzer	√	√
Max. Display	1999	1999

MT-CLM266C



Specifications

- DC Voltage: 0.2/2/20/200V ± 0.5%, 1000V ± 0.8%
- AC Voltage: 200V ± 1.0%, 750V ± 1.2%
- AC Current: 20-400A ± 3.0%, 1000A ± 3.0%
- Resistance: 200Ω, 20KΩ, 2MΩ ± 1.0%
- Temperature: 0°C ~ 400°C ± 1.0%, 400°C~ 750°C ± 2%
- Data hold
- Display: LCD size 15x47mm
- Dimensions: 70x230x37mm
- Weight: 310g

Phase Detector

MT-PHD5710



Specification

- Voltage range: 110V ~ 480V
- Test time: 110V: continuance 220V: 30 minutes 480V: 4 minutes
- Frequency response: 40 ~ 70Hz
- Inclination variation: $\pm 15^\circ$ / horizontal Operation temperature and humidity:
T: 0. C ~ 40. C (32. F ~ 104. F), H: $\leq 70\%$ (non-condensating)
- Storage temperature and humidity:
T: -10. C ~ 50. C (14. F ~ 122. F), H: $\leq 70\%$ (non-condensating)
- Dielectric strength: 2000VAC for 1 minute (between circuit and product, at 50/60Hz)
- Insulation resistance: $\geq 100M\Omega$ (between circuit and product)
- Clip leads length: 1.2m
- Size: 70x95x55mm
- Weight: 280g
- Accessories: carrying case, instruction manual, fuse (FF0.5A/700V)

Ultrasound Distance Meter

MT-UDM6450



Specifications

- Measure distance, height, area, volume fast and easily
- Measurement range: 0.6~15m
- Accuracy: $\pm 0.5\% \pm 2$ digit
- Resolution: 0.01m
- Aperture angle: Approx. $\pm 5^\circ$
- Laser type: 630 ~ 650nm
- Laser power: =1mW
- Laser class: class II (US version)
- Battery: 9V 6F22 006P NEDA1604
- Size: 130 x 50 x 30mm
- Weight: Approx. 150g

Thermocouple Calibrator

MT-TCC710



Specifications

- Display: 88888 counts.
- Thermocouple Type: J, K, T, E, R, S, B, N
- Measuring a Thermocouple
- Simulating a Thermocouple
- Temperature Resolution: J, K, T, E, B, R, S, N 0.1°C or °F
- Temperature Error: J, K, T, E, B, R, S, N $\pm(0.3^\circ\text{C}+10\mu\text{V})$
- Range : -10mV~75mV
- Resolution: 0.01mV
- Accuracy: $\pm(0.025\%+1\text{count})$
- Power: 6X1.5V
- Second Injection Molding Case

Capacitance C/L Meter

MT-CPM502



Specifications

- DISPLAY: 1999 Counts
- Cap: 200p/2n/20n/200n/2μ/20μF/200μF±2.0%
- Inductance: :2m/20m/200mH±2.0%,2H±5.0%
- Power: Battery 6F22(9V)×1
- Size: 91×189×31.5mm
- Weight: Approx. 300g

Pen R/C Meter

MT-PNM503



Specifications

- Re-Calibrated SMD Components Identifier in a Set of Tweezers
- Resistance: 4000Ω/4KΩ/40KΩ/400KΩ/4MΩ±(1.2%+2), 40MΩ±(2.0%+5)
- Capacitance: 4nF±(5.0%+5), 40nF/400nF/4uF/40Uf/100uF±(3.0%+3)
- Diode Test
- Auto power off
- Low battery indication