



**MT873**

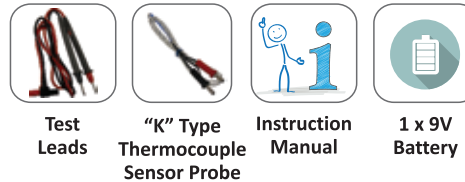
The MT873 is a True RMS multimeter and can be used to measure AC/DC voltage, AC/DC current, resistance, capacitor, frequency, duty cycle, Non Contact AC Voltage (NCV) detection, diode test and audible continuity. It also features a data hold & relative mode functions. The MT873 multimeter has a 6000 count digit LCD monitor with large 25mm digits that offer clear and easy reading. The circuitry design is centred on large-scale IC A/D converters in conjunction with an overload protection circuit, the meter offers excellent performance and is ideal for a versatile digital multimeter.

**Features**

- Over-range Indication
- Double Insulation
- Fuse Protection
- Diode & Audible Continuity Test
- Auto Range & Manual Range
- Non Contact AC Voltage (NCV) detection
- Auto Power Off



**Accessories**



**General Specifications**

FUNCTION	RANGE
AC Voltage	600V (True RMS)
DC Voltage	600V
AC Current	10A (True RMS)
DC Current	10A
Resistance	60Ω
Capacitance	99.99mF
Frequency	9.999Hz to 9.999MHz
NCV Detection	90V ~ 1000V AC RMS
AC Band width	40Hz to 400Kz
Duty Cycle	0.1% ~ 99.9%, ± (2.0% of rdg + 2 digits)
Input Impedance	10Ω
Fuse Protection	250mA/600V Fast Fuse, 10A/600V Fast Fuse
Guaranteed Precision Temp	23±5°C (relative humidity <70%)
Power supply	9V (6F22) Battery
Low battery indication	The low battery signal "⚡" is displayed when battery voltage drops too low
Operation temp & humidity	Temperature: 0°C to 40°C Relative Humidity: <85%
Storage temp & humidity	Temperature: -10°C to 50°C Relative Humidity: <85%
Dimensions (mm)	150(L) x 79(W) x 36(D)
Weight	250g (including battery)

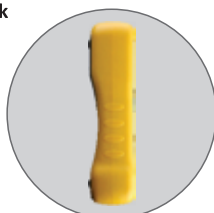
**TRUERMS**



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Tilt Stand



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**Contact Us**

Branches: Johannesburg | Cape Town | Durban | Port Elizabeth | Bloemfontein  
011 872 5500 | 021 556 3091 | 031 569 1024 | 041 452 1172 | 051 430 4958  
email: sales@major-tech.com | www.major-tech.com



## Technical Datasheet

### Detailed Specifications

Accuracy is specified for a period of year after calibration and at 18°C to 28°C (64°F to 82°F) with relative humidity to 70%.

#### AC VOLTAGE (True RMS)

RANGE	RESOLUTION	ACCURACY
6V	1mV	±(1.0% of rdg + 3 digits)
60V	10mV	
600V	100mV	±(1.5% of rdg + 3 digits)

- Impedance: 10MΩ
- Frequency Range: 40 to 400Hz
- Overload protection: 600V AC or DC RMS

#### AC CURRENT (True RMS)

RANGE	RESOLUTION	ACCURACY
600μA	0.1μA	±(1.5% of rdg + 3 digits)
6000μA	1μA	
60mA	10μA	
600mA	100μA	
6A	1mA	±(2.5% of rdg + 5 digits)
10A	10mA	

- Overload protection: 600mA/600V Fast Fuse, 10A/600V Fast Fuse, 10A up to 10 seconds
- Frequency Range: 40 to 400Hz

#### CAPACITANCE

RANGE	RESOLUTION	ACCURACY
9.999nF	1pF	±(3.0% of rdg + 10 digits)
99.99nF	10pF	
999.9nF	100pF	±(2.5% of rdg + 5 digits)
9.999μF	1nF	
99.99μF	10nF	±(5.0% of rdg + 10 digits)
999.9μF	100nF	
9.999mF	1μF	±(10.0% of rdg + 20 digits)
99.99mF	10μF	

- Overload protection: 600V AC or DC RMS

#### RESISTANCE

RANGE	RESOLUTION	ACCURACY
600Ω	0.1Ω	±(1.0% of rdg + 3 digits)
6kΩ	1Ω	
60kΩ	10Ω	±(1.0% of rdg + 2 digits)
600kΩ	100Ω	
6MΩ	1kΩ	
60MΩ	10kΩ	±(1.5% of rdg + 3 digits)

- Overload protection: 600V AC or DC RMS

#### TEMPERATURE

RANGE	RESOLUTION	ACCURACY	
°C	1°C	-20~150°C	±(3°C + 1 digit)
		150~1000°C	±(3% of rdg + 2 digits)
°F	1°F	-4~302°F	±(5°F + 2 digits)
		302~1832°F	±(3% of rdg + 3 digits)

- NiCr-NiSi K-type sensor
- Overload protection: 600mA/600V Fast Fuse

#### DUTY CYCLE

0.1%~99.9%: ±(2.0% of rdg + 2 digits), Frequency lower than 10kHz

- Sensitivity: sine wave 0.6V RMS
- Overload protection: 600V AC or DC RMS

#### NON CONTACT AC VOLTAGE (NCV) DETECTION

Test voltage range: 90V~1000V AC RMS

The NCV red light and green light will light up alternately together with sound

#### DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
600mV	0.1mV	±(0.5% of rdg + 2 digits)
6V	1mV	
60V	10mV	
600V	100mV	±(0.8% of rdg + 2 digits)

- Impedance: 10MΩ, More than 100MΩ on 600mV range
- Overload protection: 600V AC or DC RMS

#### DC CURRENT

RANGE	RESOLUTION	ACCURACY
600μA	0.1μA	±(1.2% of rdg + 2 digits)
6000μA	1μA	
60mA	10μA	
600mA	100μA	
6A	1mA	±(2.0% of rdg + 3 digits)
10A	10mA	



- Overload protection: 600mA/600V Fast Fuse, 10A/600V Fast Fuse, 10A up to 10 seconds

#### FREQUENCY

RANGE	RESOLUTION	ACCURACY
9.999Hz	0.001Hz	±(0.1% of rdg + 5 digits)
99.99Hz	0.01Hz	
999.9Hz	0.1Hz	
9.999kHz	1Hz	
99.99kHz	10Hz	
999.9kHz	100Hz	
9.999MHz	1kHz	

- Sensitivity: sine wave 0.6V RMS (9.999MHz: 1.5V RMS)
- Overload protection: 600V AC or DC RMS

#### DIODE AND AUDIBLE CONTINUITY TEST

RANGE	DESCRIPTION	TEST CONDITION
	Display read approximately forward voltage of diode	Forward DC current approx. 1.5mA Reversed DC voltage approx. 4V
	Built-in buzzer sounds if resistance is less than 50Ω	Open circuit voltage approx. 2V

- Overload protection: 600V AC or DC RMS

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email: [sales@major-tech.com](mailto:sales@major-tech.com)

[www.major-tech.com](http://www.major-tech.com)

