



DT-9927T

Professional T-RMS Digital Multimeter

This CEM Digital T-RMS Multimeter is a 6000 Counts meter, which is completely protected and provides accurate reading in the toughest terrains. Something an engineer cannot do without. It has Ingress Protection IP-67, which makes this instrument water proof and dust proof. It has full overload protection of 1000V DC/AC on all ranges and has surge protection of up to 8kV. It has fast blow fuse protection.

The meter conforms to IEC-61010-1, CAT-IV 600V, CAT-III 1000V, CE. The meter meets UL 61010-1 2nd Edition (2004), CAN/CSA C22.2 No. 61010-1 2nd Edition (2004), and UL 61010B-2-031, 1st Edition (2003). It has bandwidth of 1kHz for AC Voltage and AC Current measurement.



FEATURES

- 6000 Counts Backlit Display with Analogue Bargraph
- AC Bandwidth of 40Hz to 1000Hz for Voltage & Current measurement
- IP-67 Protection, Dust-Water Proof
- 1000V DC/AC Protection on all Ranges.
- Fast Blow Fuse Protection
- Measures AC T-RMS/DC Voltage
- Measures AC T-RMS/DC Current
- Resistance, Capacitance, Frequency, Temperature, Duty Cycle Measurement
- Diode & Continuity Check
- Data Hold, MIN/MAX record
- Relative Measurement
- Double Molded Housing
- 6.5feet Drop proof
- Input Impedance >10MΩ VDC & VAC
- Over-range Indication, Low Battery Indication
- Auto Power Off to save battery life
- 9V Battery Operated
- Operating Temperature 41°F to 104°F (5°C to 40°C)
- Storage Temperature -4°F to 140°F (-20°C to 60°C)
- Operating Humidity Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)
- Storage Humidity <80%
- Operating Altitude 7000ft. (2000 meters) maximum.
- Weight 0.753lb (342g) (includes holster).
- Size 187 x 81 x 50mm

SPECIFICATIONS

Function	Range	Resolution	Accuracy
DC Voltage	600mV	0.1mV	± (0.09% reading + 2 digits)
	6V	0.001V	
	60V	0.01V	
	600V	0.1V	
	1000V	1V	± (0.15% reading + 2 digits)

Function	Range	Resolution	Accuracy	
			50 to 60Hz	40Hz to 1KHz
AC Voltage	6V	0.001V	± (1.0% reading + 3 dgts)	± (2.0% reading + 3 dgts)
	60V	0.01V		
	600V	0.1V		
	1000V	1V	± (1.2% reading + 3 dgts)	± (2.5% reading + 3 dgts)
All AC voltage ranges are specified from 5% of range to 100% of range				

Function	Range	Resolution	Accuracy
DC Current	600µA	0.1µA	± (1.0% reading + 3 digits)
	6000µA	1µA	
	60mA	0.01mA	
	600mA	0.1mA	± (1.5% reading + 3 digits)
	6A	0.001A	
	10A	0.01A	
(20A: 30 sec max with reduced accuracy)			

Function	Range	Resolution	Accuracy
			40Hz to 1kHz
AC Current	600µA	0.1µA	± (1.5% reading + 3 digits)
	6000µA	1µA	
	60mA	0.01mA	
	600mA	0.1mA	± (2.0% reading + 3 digits)
	6A	0.001A	
	10A	0.01A	
(20A: 30 sec max with reduced accuracy)			
All AC Current ranges are specified from 5% of range to 100% of range			

Function	Range	Resolution	Accuracy
Resistance	600Ω	0.1Ω	± (0.3% reading + 4 digits)
	6kΩ	0.001kΩ	
	60kΩ	0.01kΩ	
	600kΩ	0.1kΩ	
	6MΩ	0.001MΩ	± (0.5% reading + 20 digits)
	60MΩ	0.01MΩ	

Function	Range	Resolution	Accuracy
Capacitance	60nF	0.01nF	± (3.5% reading + 4 digits)
	600nF	0.1nF	
	6µF	0.001µF	
	60µF	0.01µF	
	600µF	0.1µF	± (5% reading + 5 digits)
	1000µF	1µF	

Function	Range	Resolution	Accuracy
			± (0.1% reading + 1 digits)
Frequency (electronic)	9.999Hz	0.001Hz	± (0.1% reading + 1 digits)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	9.999kHz	0.001kHz	
	99.99kHz	0.01kHz	
	999.9kHz	0.1kHz	
	9.999MHz	0.001MHz	
	40MHz	0.01MHz	
Sensitivity: 0.8V RMS min. @ 20% to 80% duty cycle and <100kHz; 5V RMS min @ 20% to 80% duty cycle and > 100kHz.			

Function	Range	Resolution	Accuracy
Frequency (electrical)	10.00-400Hz	0.01Hz	± (0.5% reading)
Sensitivity: 15V RMS			

Function	Range	Resolution	Accuracy
Duty Cycle	0.1 to 99.9%	0.10%	± (1.2% reading + 2 digits)
	Pulse width: 100µs - 100ms, Frequency: 5Hz to 150kHz		

Function	Range	Resolution	Accuracy
Temp (type-K)	-50 to 1382°F	1°F	± (3.0% reading + 5°C /9°F digits) (probe accuracy not included)
	-45 to 750°C	1°C	

INCLUDED ACCESSORIES:

- Carrying Case
- Testing Leads
- Temperature Probe
- Instruction Manual
- Battery
- Test Report