

CEM DT-9989

Professional, Industrial – Multimeter/Oscilloscope



- 20MHz/50MS/s bandwidth/Real time sample rate
- 100kHz bandwidth (voltage/current)
- AC, AC+DC true-RMS measurements
- Peak capture (records transients as fast as 250µs)
- Motor winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC.
- IP Rating 67
- CAT III 600V Safety Standard

Features

Large 50,000 count 320 x 240 TFT color LCD display	■
20MHz/50MS/s bandwidth/Real time sample rate	■
Logging function with Trend Capture for easy review of logged data	■
Bluetooth PC interface for easy data transfer & accuracy calibration	■
100kHz bandwidth (voltage/current)	■
AC, AC+DC true-RMS measurements	■
0.025% DCV accuracy with Fully PC Calibration	■
Saves measurements, records events and trends	■
20 Times/sec. A/D convert fast sampling time	■
Peak capture (records transients as fast as 250µs)	■
Min/Max/Average with Time stamp (records signal fluctuations)	■
Moto winding and low ohm (50Ω) measurement range	■
Low pass filter	■
IP Rating 67 & CATIII 1000V/CATIV 600V	■
Bluetooth interface to smartphone / PC.	■
Meterbox IMM & cloud service	■

Specifications

Oscilloscope Functions	
Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	20MHz
Real time sample rate	50MS/s
Risetime	10ns
Channels	1
Vertical Sensitivity	50mV to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input impedance	1M Ω /200pF
Max Input Volatage	1000V(peak)
Cursor Measurement	Voltage and time/ Frequency

True RMS Multimeter Functions			
Function	Maximum	Max,resolution	Accuracy
Voltage DC	1000V	1 μ V	$\pm(0.025\% + 5)$
Voltage AC	1000V	1 μ V	$\pm(0.4\% + 40)$
Current DC	10A	0.01 μ A	$\pm(0.15\% + 2)$
Current AC	10A	0.01 μ A	$\pm(0.6\% + 5)$
Temperature	-50°C to 1000°C	0.1°C	$\pm(1.0\% + 2.5^\circ\text{C})$
Resistance	50M Ω	0.01 Ω	$\pm(0.05\% + 2)$
Capacitance	10mF	0.001nF	$\pm(1.0\% + 5)$
Frequency	10MHz	0.01Hz	$\pm(0.005\% + 1)$
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	6 hours Li-ion rechargeable battery; AC daptor/charger		