

LCR and Capacitance Meter

Technical Data



MT957

The new MT957 LCR meter is battery operated and provides direct and accurate measurements of inductors, capacitors and resistors with different frequencies and is selectable for auto ranging of manual ranging. Convenient front panel pushbuttons and controls include functions such as data hold, maximum and minimum record mode and relative mode. The 11,000 count LCD display is backlit for easy reading in dark locations.

Features Include:

- 11 000 Count Display
- MIN/MAX Record mode
- Relative mode
- Measures Inductance to 20H
- Measures Resistance to 110MΩ
- Measures Capacitance to 110mF
- Zero adjustment for low capacitance range
- Easy-to-read 11,000 Count LCD Display with annunciators
- Double injection rubber housing with IP67 waterproof O-Ring sealed case
- Data hold function
- Auto Power Off
- Low Battery Indication

General Specifications

Instrument complies with	: EN61010-1
Insulation	: Class2, Double insulation.
Overvoltage category	: CATIII 600V
Display	: 11000 counts LCD display with function indication
Polarity	: Automatic, (-) negative polarity indication
Overrange	: "OL" mark indication
Low battery indication	: The "□" is displayed when the battery voltage drops below the operating level.
Measurement rate	: 4 times per second nominal.
Auto power off	: Meter automatically shuts down after approx. 15 minutes of inactivity.
Operating environment	: 0°C to 50 °C (32 °F to 122 °F) at < 70 % relative humidity.
Storage temperature	: -20°C to 60°C (-4 °F to 140 °F) at < 80 % relative humidity.
For inside use, max height	: 2000m
Pollution degree	: 2
Power	: One 9V battery, NEDA 1604, IEC 6F22.
Dimensions	: 150 (H) X 70 (W) X 48 (D) mm
Weight	: 225g.



Accuracy is given at 18°C to 28°C (65°F to 83°F), less than 70% RH

Measurement	Range	Resolution	Accuracy
Resistance	110.0Ω	0.01Ω	± 1.2% of rdg ± 0.5Ω
	1.1000kΩ	0.1Ω	± 1.2% of rdg ± 10 dgts
	11.00kΩ	1Ω	
	1100.0kΩ	10Ω	
	1.1000MΩ	100Ω	± 2.5% of rdg ± 10 dgts
	11.000MΩ	1kΩ	
	40.00MΩ	10kΩ	
Capacitance (Auto-ranging)	11.00nF	1pF	± 5.0% of rdg ± 0.7nF
	110.00nF	10pF	± 5.0% of rdg ± 15 dgts
	1.1000uF	100pF	
	11.000uF	1nF	± 3.0% of rdg ± 10 dgts
	110.00uF	10nF	
	1.1000mF	0.1uF	
	11.000mF	1uF	± 10.0% of rdg ± 10 dgts
	110.00mF	10uF	
Inductance (Manual-ranging)	11.000mH	1uH	± 2.0% of rdg ± 0.05mH
	110.00mH	10uH	
	11.00H	1mH	± 5.0% of rdg ± 0.05H
	20.00H	10mH	± 5.0% of rdg ± 0.2H
Measurement	Test current	Resolution	Accuracy
Diode Test	0.3mA typical	1 mV	± 10% of rdg ± 5 dgts