EXTECH INSTRUMENTS
A FLIR COMPANY

Experience the Extech Advantage

PRODUCT DATASHEET

CAT IV Insulation Tester/MultiMeter with Wireless PC Interface

Combines a 1000V Insulation Tester

With a full-featured True RMS MultiMeter in a single, compact instrument



Features:

- Wireless USB interface transmits measurement data to a PC
- Backlit super large triple display
- 125V, 250V, 500V, and 1000V test voltages
- Insulation Resistance from 0.001MΩ to 4000MΩ
- Auto discharge of capacitive voltage
- Lock Power On Function for hands-free operation
- Data Hold and Auto Power Off
- Min/Max and Relative mode
- Waterproof (IP67) rugged double-molded design
- Complete with remote receiver with USB cable, Windows® compatible software, heavy duty test leads, alligator clip test lead, Type K bead wire temperature probe with adapter, carrying case, and 6 x AA batteries



Measure the insulation resistance of transformer windings



Only a True RMS meter can give accurate readings of distorted waveforms



WIRELESS Transmitter

Continuous data streaming to your PC in real time

Specifications	Range	Resolution	Accuracy
Insulation Tester			
Insulation Resistance	4MΩ, 40MΩ, 400MΩ, 4000MΩ	0.001MΩ	±3%
Insulation Test Voltages	125V, 250V, 500V, 1000V		
Multimeter			
AC Voltage	1000V	0.1mV	±1%
DC Voltage	1000V	0.01mV	±0.06%
AC Current	10A	0.1µA	±1.5%
DC Current	10A	0.01µA	±1.0%
Resistance	40MΩ	0.01Ω	±0.3%
Capacitance	40mF	0.001nF	±3.5%
Frequency	100MHZ	0.001HZ	±0.1%
Duty Cycle	0.1 to 99.9%	0.01	±1.2%
Temperature	-58 to 2192°F	0.1°F	±1% + 4.5°F
	-50 to 1200°C	0.1°C	±1% + 2.5°C
4-20mA%	-25 to 125%	0.01%	
Continuity/Diode	Yes		
Power source	6 x AA batteries		
Dimensions	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)		
Weight	20.5oz (582g)		

Ordering Information:

MG300 .....CAT IV Insulation Tester/True RMS MultiMeter w/Wireless PC Interface (915MHz)
MG300-NIST .....MG300 with Certificate of Calibration Traceable to NIST

MG302 .....CAT IV Insulation Tester/True RMS MultiMeter w/Wireless PC Interface (433MHz)
MG302-NIST .....MG302 with Certificate of Calibration Traceable to NIST

TL805.....Double Injected Test Leads

(NOTE: USA, Mexico, and Canada use 915MHz model and majority of other countries use 433MHz model)

c UL us LISTED
UL listed on MG300 only

IP67 Waterproof Dustproof

EN 61010-1 CAT IV 600V

Specifications subject to change without notice.
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