

INTRODUCTION

- Overload protection up to 1200V DC / AC RMS in the AC/DC Voltage range.
- Overload protection up to 20A DC/AC RMS by fast blow fuse in the AC/DC Current range.
- Overload protection up to 600V DC / AC RMS in the capacitance, Frequency, Temperature, Resistance, Continuity and Diode Test Range.
- The instrument has overload protection up to 20A DC/AC RMS in the Voltage Range and 1000V DC/AC RMS in the Current Range.
- Surge Protection of 8 kV peak IEC 61010
- O Ring Seal body.
- The instrument has IP-67 Protection making the body water proof even if dipped in 1m. deep water for 30 mins.
- Double molded injection body with rubber lining to provide insulation against electrical shocks and anti-slip grip.
- Confirms to EN61010-1, CAT IV 600V, CAT III 1000V.
- Two year warranty against manufacturing defects



GENERAL SPECIFICATIONS

The instrument complies with : IEC61010-1:2001 and IEC, 61010-031:2002

Insulation	: Class2, Double insulation.
Overvoltage category	: CATIII 1000V, CAT IV 600V.
Display	: 4000 counts Backlit LCD display with function indicator
Polarity	: Automatic, (-) negative polarity indication.
Overrange	: "OL" mark indication.
Low battery indication	: The "BAT" is displayed when the battery voltage drops below the operating level.
Measurement rate	: 2 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) @ 70% R.H.
Storage temperature	: -20°C to 60°C (-4°F to 140°F) @ < 80% R.H.
For inside use, max height	: 2000m
Pollution degree	: 2
Power	: One 9V battery , NEDA 1604, IEC 6F22.
Dimensions	: 182 (H) x 82 (W) x55 (D) mm
Weight	: Approx.: 375g.
Data Hold	: Freezes the displayed data
Relative measurement facility	

TECHNICAL SPECIFICATIONS

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

DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
400.0mV	0.1mV	± 0.5% of rdg + 2 dcts
4.000V	1mV	
40.00V	10mV	± 1.2% of rdg + 2 dcts
400.0V	100mV	
1000V	1V	± 1.5% of rdg + 2 dcts

Input Impedance : 7.8MΩ.

Maximum Input : 1200V DC or 1200V AC rms.

AC Voltage (Auto-ranging except 400mV)

Range	Resolution	Accuracy
400.0mV	0.1mV	± 1.5% of rdg ± 3 dcts
4.000V	1mV	± 1.2% of rdg ± 3 dcts
40.00V	10mV	± 1.5% of rdg ± 3 dcts
400.0V	100mV	
1000V	1V	± 2.0% of rdg + 4 dcts

Input Impedance : 7.8MΩ.

AC Response : 50 Hz to 400 Hz

Maximum Input : 1200V DC or 1200V AC rms.

DC Current (Auto-ranging for uA and mA)

Range	Resolution	Accuracy
400.0uA	0.1uA	± 1.0% of rdg + 3 dcts
4000uA	1uA	
40.0mA	10uA	± 1.5% of rdg ± 3 dcts
400.0mA	100uA	
20A	10mA	± 2.5% of rdg + 5 dcts

Overload Protection : 0.5A / 1000V and 20A / 500V Fuse

Maximum Input : 400mA DC or 400mA AC rms on uA / ma ranges, 20A DC or AC rms on 20A range

Note: 10A continuous, 20A for 30 seconds max with a 15 minute cool down interval

*Technical Specifications & Appearance are subject to change without prior notice

AC Current (Auto-ranging for uA and mA)

Range	Resolution	Accuracy
400.0uA	0.1uA	± 1.5% of rdg + 5 dcts
4000uA	1uA	
40.0mA	10uA	± 1.8% of rdg + 5 dcts
400.0mA	100uA	
20A	10mA	± 3.0% of rdg + 7 dcts

Overload Protection : 0.5A / 1000V and 10A / 500V Fuse

AC Response : 50 Hz to 400 Hz

Maximum Input : 400mA DC or 400mA AC rms on uA / mA ranges, 20A DC or AC rms on 20A range

Note: 10A continuous, 20A for 30 seconds max with a 15 minute cool down interval

Resistance (Auto-ranging)

Range	Resolution	Accuracy
400.0Ω	0.1Ω	± 1.2% of rdg ± 4 dcts
4000kΩ	1Ω	± 1.0% of rdg ± 2 dcts
40.0kΩ	10Ω	
400.0kΩ	100Ω	± 1.2% of rdg ± 2 dcts
4.00MΩ	1kΩ	
40.00MΩ	10kΩ	± 2.0% of rdg ± 7 dcts

Input Protection : 600V DC or 600V AC rms

Capacitance (Auto-ranging)

Range	Resolution	Accuracy
4.000nF	1pF	± 5.0% of rdg ± 0.2 nF
40.00nF	10 pF	± 5.0% of rdg ± 7 dcts
400.0nF	0.1nF	
4.000uF	1nF	± 3.0% of rdg ± 5 dcts
40.00uF	10nF	
200.0uF	0.1uF	± 5.0% of rdg ± 5 dcts

Input Protection : 600V DC or 600V AC rms

Frequency (Auto-ranging)

Range	Resolution	Accuracy
9.999Hz	0.001 Hz	
99.99Hz	0.01 Hz	± 1.5% of rdg ± 5 dcts
999.9Hz	0.1 Hz	
9.999kHz	1Hz	
99.99kHz	10Hz	± 1.2% of rdg ± 3 dcts
999.9kHz	100Hz	
9.999MHz	1kHz	± 1.5% of rdg ± 4 dcts

Sensitivity : > 0.5V RMS while \leq 1MHz

Sensitivity : > 3V RMS while > 1MHz

Overload protection : 600V DC or AC rms

Duty Cycle

Range	Resolution	Accuracy
0.1%~99.9%	0.1%	± 1.2% of rdg ± 2 dcts

Pulse width : > 100us, < 100ms

Frequency width : 5Hz - 150kHz

Sensitivity : > 0.5V RMS

Overload protection : 600V DC or AC rms

Diode Text

Test Current	Resolution	Accuracy
0.3mA typical	1 mV	± 10% of rdg ± 5 dcts

Open circuit voltage : 1.5V DC typical

Overload protection : 600V DC or AC rms

Audible continuity

Audible threshold : Less than 150Ω

Test current : < 0.3 mA

Overload protection : 600V DC or AC rms

OPTIONAL ACCESSORIES

- Metravi TS-03 Infrared Non-contact Temperature Adaptor to measure temperature from -30°C to 550°C with fixed emissivity of 0.95 and distance to sighting ratio of 8:1.
- Metravi CA-1000D Clamp-on Current Adaptor to measure up to 1000A.
- Metravi CA-01 Clamp-on Current Adaptor to measure up to 200A AC.

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