

General Specifications

Maximum voltage between any Terminal and Earth Ground: 1000 V

⚠ **Fuse Protection for mA or μ A inputs** 0.44 A (44/100 A, 440 mA), 1000 V FAST Fuse, Fluke specified part only

⚠ **Fuse Protection for A input**..... 11 A, 1000 V FAST Fuse, Fluke specified part only

Battery Type 6 AA Alkaline batteries, NEDA 15A IEC LR6

Battery Life 100 hours minimum. 200 hours in Logging mode

Temperature

Operating -20 °C to 55 °C

Storage..... -40 °C to 60 °C

Relative Humidity 0 % to 90 % (0 °C to 37 °C), 0 % to 65 % (37 °C to 45 °C), 0 % to 45 % (45 °C to 55 °C)

Altitude

Operating 3,000 m

Storage..... 10,000 m

Temperature Coefficient..... 0.05 X (specified accuracy) /°C (<18 °C or >28 °C)

Vibration..... Random Vibration per MIL-PRF-28800F Class 2

Shock 1 meter drop per IEC/EN 61010-1 2nd Edition

Size (HxWxL) 8.75 in x 4.03 in x 2.38 in (22.2 cm x 10.2 cm x 6.0 cm)

Weight 28.0 oz (871 g)

Safety Standards

US ANSI..... Complies with ANSI/ISA 82.02.01 (61010-1) 2004

CSA..... CAN/CSA-C22.2 No 61010-1-04 to 1000 V Measurement Category III and 600 V
Measurement Category IV, Pollution Degree 2

UL..... UL 61010 (2003)

CE European..... IEC/EN 61010-1 2nd Edition Pollution Degree 2

Electromagnetic Compatibility Standards (EMC)

European EMC.....EN61326-1

Australian EMC  N10140

US FCC.....FCC CFR47: Part 15 CLASS A

CertificationsUL, CE, CSA, , (N10140),  

Detailed Specifications

Accuracy:

Accuracy is specified for a period of one year after calibration, at 18 °C to 28 °C (64 °F to 82 °F), with relative humidity to 90 %. Accuracy specifications are given as: ±([% of reading] + [number of least significant digits]). Accuracy specification assumes ambient temperature stable at ±1 °C. For ambient temperature changes of ±5 °C, rated accuracy applies after 2 hours. To obtain full accuracy in DC mV, Temperature, Ohms and Lo (50) Ohms, let the meter stabilize 20 minutes after using LoZ.

True-rms:

AC mV, AC V, AC μA, AC mA, and AC A specifications are ac-coupled, true rms, and are specified from 2 % of range to 100 % of range, except 10 A range is specified from 10 % to 100 % of range.

Crest Factor:

Accuracy is specified with AC crest factor ≤ 3.0 at full-scale, increasing linearly to 5.0 at half-scale, except the 1000 V range, where it is 1.5 at full scale, increasing linearly to 3.0 at half-scale and 500 mV and 5000 μA, where it is ≤3.0 at 80 % of full scale, increasing linearly to 5.0 at half-scale. For non-sinusoidal waveforms add ±(0.3 % of range and 0.1 % of reading).

AC Floor:

When the input leads are shorted together in the ac functions, the Meter may display a residual reading up to 200 counts. A 200 count residual reading will cause only a 20 count change for readings at 2 % of range. Using REL to offset this reading may produce a much larger constant error in later measurements.

AC+DC:

AC+DC is defined as $\sqrt{ac^2 + dc^2}$