

AC Voltage		
Range ¹ / resolution		600.0 mV / 0.1 mV
		6.000 V / 0.001 V
		60.00 V / 0.01 V
		600.0 V / 0.1 V
		1000 V / 1 V
Accuracy ^{2 3 4}	45 Hz to 500 Hz	1.0% + 3
	500 Hz to 1 kHz	2.0% + 3

1. AC voltage ranges are specified from 1% of range to 100% of range.
2. Crest factor of ≤ 3 at full scale up to 500 V, decreasing linearly to crest factor < 1.5 at 1000 V.
3. For non-sinusoidal waveforms, add \pm (2% of reading + 2% full scale) typical, for crest factor up to 3.
4. Do not exceed 107 V-Hz.

DC Voltage, Continuity, Resistance, Diode Test and Capacitance		
mV	Range / resolution	600.0 mV / 0.1 mV
	Accuracy	0.09% + 2
V	Range / resolution	6.000 V / 0.001 V
		60.00 V / 0.01 V
		600.0 V / 0.1 V
		1000 V / 1 V
	Accuracy	0.09% + 2 0.15% + 2
)))	Range / resolution	600 Ω / 1 Ω
	Accuracy	Meter beeps at $< 25 \Omega$, beeper detects opens or shorts of 250 μ s or longer.
Ω	Range / resolution	600.0 Ω / 0.1 Ω
		6.000 k Ω / 0.001 k Ω
		60.00 k Ω / 0.01 k Ω
		600.0 k Ω / 0.1 k Ω
	600.0 k Ω / 0.001 M Ω	
Accuracy		0.5% + 2 0.5% + 1 1.5% + 3
	Diode test	Range / resolution 2.000 V / 0.001 V
	Accuracy	1% + 2
μ F	Range / resolution	1000 nF / 1 nF
		10.00 μ F / 0.01 μ F
		100.0 μ F / 0.1 μ F
		9999 μ F ¹ / 1 μ F
	Accuracy	1.2% + 2 10% typical

1. In the 9999 μ F range for measurements to 1000 μ F, the measurement accuracy is 1.2% + 2.

AC and DC Current		
mA AC (45 Hz to 1 kHz)	Range ¹ / resolution	60.00 mA / 0.01 mA 400.0 mA ² / 0.1 mA
	Accuracy	1.5% + 3
mA DC ²	Range ¹ / resolution	60.00 mA / 0.01 mA 400.0 mA ² / 0.1 mA
	Accuracy	0.5% + 3

1. All AC current ranges are specified from 5% of range to 100% of range.
2. Input burden voltage (typical): 400 mA input 2 mV/mA.
3. 400.0 mA accuracy specified up to 800 mA overload.

Frequency	
Range / resolution	99.99 Hz / 0.01 Hz 999.9 Hz / 0.1 Hz 9.999 kHz / 0.001 kHz 99.99 kHz / 0.01 kHz
Accuracy ¹	0.1% + 1

1. Frequency is specified up to 99.99 kHz in volts and up to 10 kHz in amps.

Input Characteristics		
$\overline{\text{V}}$	Overload protection	1100 V RMS
	Input impedance (nominal)	$> 10 \text{ M}\Omega < 100 \text{ pF}$
	Common mode rejection ratio (1 k Ω unbalance)	$> 120 \text{ dB}$ at DC, 50 Hz or 60 Hz
	Normal mode rejection	$> 60 \text{ dB}$ at 50 Hz or 60 Hz
$\hat{\text{V}}$	Overload protection	1100 V RMS
	Input impedance (nominal)	$> 10 \text{ M}\Omega < 100 \text{ pF}$
	Common mode rejection ratio (1 k Ω unbalance)	$> 60 \text{ dB}$, DC to 60 Hz
	Normal mode rejection	$> 60 \text{ dB}$ at 50 Hz or 60 Hz
\approx mV	Overload protection	1100 V RMS
	Input impedance (nominal)	$> 10 \text{ M}\Omega < 100 \text{ pF}$
	Common mode rejection ratio (1 k Ω unbalance)	$> 120 \text{ dB}$ at DC, 50 Hz or 60 Hz
	Normal mode rejection	$> 60 \text{ dB}$ at 50 Hz or 60 Hz

Open Circuit Test Voltage		
Ω/\rightarrow	Overload protection	1100 V RMS
	Input impedance (nominal)	$< 2.7 \text{ V DC}$
	Full scale voltage to 6 M Ω	$< 0.7 \text{ V DC}$
	Full scale voltage 50 M Ω	$< 0.9 \text{ V DC}$
	Typical short circuit current	$< 350 \text{ mA}$
\rightarrow/\rightarrow	Overload protection	1100 V RMS
	Input impedance (nominal)	$< 2.7 \text{ V DC}$
	Full scale voltage to 6 M Ω	2.000 V DC
	Full scale voltage 50 M Ω	
	Typical short circuit current	$< 1.1 \text{ mA}$

mA Function	
Overload protection	Fused, 44/100 A, 1000 V FAST Fuse
Overload	600 mA overload for 2 minutes maximum, 10 minutes rest minimum

MIN/MAX Recording Accuracy	
DC functions	± 12 counts for changes $> 350 \text{ mS}$ in duration.
AC functions	± 40 counts for changes $> 900 \text{ mS}$ in duration.

General Specifications		
Maximum voltage between any terminal and earth ground	1000 V DC or AC RMS	
Ω fuse protection from A inputs	0.44 A (44/100 A, 440 mA), 1000 V FAST Fuse, Fluke specified part only	
Display (LCD)	Update rate	4/sec
	Volts, amps, ohms	6000 counts
	Frequency	10,000 counts
Capacitance	1,000 counts	
Battery type	Three AA Alkaline batteries, NEDA 15A IEC LR6	
Battery life	250 hours minimum	
RF communications	2.4 GHz ISM Band	
RF communication range	Open air, unobstructed	Up to 20m
	Obstructed, sheetrock wall	Up to 6.5m
Obstructed, concrete wall, or steel electrical enclosure		Up to 3.5m
Temperature	Operating	-10°C to 50°C
	Storage	-40°C to 60°C
Temperature coefficient		0.1 X (specified accuracy) / °C ($< 18^\circ\text{C}$ or $> 28^\circ\text{C}$)
Relative humidity		0% to 90% (0°C to 35°C)
		0% to 75% (35°C to 40°C)
		0% to 45% (40°C to 50°C)
Altitude	Operating	2,000 m
	Storage	12,000 m
Electromagnetic compatibility EMI, RFI, EMC, RF		EN 61326-1:2006, EN 61326-2-2:2006
		ETSI EN 300 328 V1.7.1:2006, ETSI EN 300 489 V1.8.1:2008
		FCC Part 15 Subpart C Sections 15.207, 15.209, 15.249
		FCCID : FCC: T66-FDMMBLE IC: 6627A-FDMMBLE
Safety compliance		ANSI / ISA 61010-1 / (82.02.01): 3rd edition
		CAN / CSA-C22.2 No 61010-1-12: 3rd edition
		UL 61010-1: 3rd edition
		IEC / EN 61010-1:2010
Certifications		CSA, FCC, CE
Ingress Protection (IP) rating		IP54
Pollution Degree		2
Size (H x W x L)		4.75 x 9.3 x 20.7 cm (1.87 x 3.68 x 8.14 in)
Weight		340 g (12 oz)