



Accuracy Specifications			
	Range	Resolution	Accuracy
AC Volts (40 Hz to 500Hz) ¹	6.000 V	0.001 V	
	60.00 V	0.01 V	1.0 % + 3
	600.0 V	0.1 V	
DC Volts	6.000 V	0.001 V	
	60.00 V	0.01 V	0.5 % + 3
	600.0 V	0.1 V	
AC Millivolts	600.0 mV	0.1 mV	3.0 % + 3
Diode Test ²	2.000 V	0.001 V	10 %
Resistance (Ohms)	400.0 Ω	0.1 Ω	0.5 % + 3
	4.000 kΩ	0.001 kΩ	0.5 % + 2
	40.00 kΩ	0.01 kΩ	0.5 % + 2
	400.0 kΩ	0.1 kΩ	0.5 % + 2
	4.000 MΩ	0.001 MΩ	0.5 % + 2
	40.00 MΩ	0.01 MΩ	1.5% + 3
Capacitance ³	50.00 nF	0.01 nF	2 % + 5
	500.0 nF	0.1 nF	2 % + 5
	5.000 μF	0.001 μF	5 % + 5
	50.00 μF	0.01 μF	5 % + 5
	500.0 μF	0.1 μF	5 % + 5
	1000 μF	1 μF	5 % + 5
Frequency ⁴ Hz (10 Hz – 100 kHz)	50.00 Hz	0.01 Hz	
	500.0 Hz	0.1 Hz	0.1 % + 3
	5.000 kHz	0.001 kHz	

	50.00 kHz 100.0 kHz	0.01 kHz 0.1 kHz	
Duty Cycle⁴	1 % to 99 %	0.1 %	1 % typical ⁵
AC Current (40 Hz to 200 Hz)	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3
DC Current	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3

All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

Typically, open circuit test voltage is 2.0 V and short circuit current is <0.6 mA.

Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 50 nF range).

All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

Typical means when the frequency is at 50 Hz or 60 Hz and the duty cycle is between 10 % and 90 %

Function	Overload Protection	Input Impedance (Nominal)	Common Mode Rejection Ratio	Normal Mode Rejection Ratio
AC Volts	600 V ¹	>10 MΩ <100 pF ²	>60 dB at dc, 50 Hz or 60 Hz	–
AC Millivolts	600 mV	>1M, <100 pF	>80 dB at 50 Hz or 60 Hz	–
DC Volts	600 V ¹	>10 MΩ <100 pF	>100 dB at dc, 50 Hz or 60 Hz	>60 dB at 50 Hz or 60 Hz

6 x 10⁵ V Hz Max

For mV (AC), input impedance is approximately 1 MΩ.

General Specifications

Maximum Voltage Between any Terminal and Earth Ground	600 V
Display (LCD)	6000 counts, updates 3/sec
Battery Type	2 AAA, NEDA 24A, IEC LR03
Battery Life	200 hours minimum
Temperature	
Operating	0 °C to 40 °C
Storage	-30 °C to 60 °C
Relative Humidity	
Operating Humidity	Non-condensing when <10°C ≤90 % at 10 °C to 30 °C; ≤75 % at 30 °C to 40 °C

Operating Humidity, 40 MΩ Range	≤80 % at 10 °C to 30 °C; ≤70 % at 30 °C to 40 °C
Altitude	
Operating	2000 m
Storage	12,000 m
Temperature Coefficient	0.1 X (specified accuracy) /°C (<18 °C or >28 °C)
Fuse Protection for Current Inputs	11A, 1000V Fast Fuse, Fluke specified part only
Size (HxWxL)	142 mm x 69 mm x 28mm
Weight	200 g
IP Rating	IEC 60529: IP 40
Safety	IEC 61010-1: 600 V CAT III, Pollution Degree 2
Electromagnetic Environment	IEC 61326-1: Portable
Electromagnetic Compatibility	Applies to use the Korea only. Class A Equipment (Industrial Broadcasting and Communication Equipment) ¹