

Intrinsically safe digital multimeter

Fluke

28 II EX NEC/CEC

- CAT III 1000 V / CAT IV 600 V
- Dustproof, waterproof (IP67)
- Measures up to 1000V / 10A (outside of the Ex-hazardous area)
- Min/Max/Avg and Peak capture
- Low pass filter for accurate measurements on variable speed motor drives
- 4½“ digit display (20,000 counts) with backlight
- Input Alert

Rugged and intrinsically safe multimeter

Technical Data

General specifications		
Measuring range		
DC voltage		0.1 mV to 1000 V Accuracy: ± (0.05 % + 1)
AC voltage		0.1 mV to 1000 V Accuracy: ± (0.7 % + 4)
DC current		0.1 µA to 10 A Accuracy: ± (0.2 % + 4)
AC current		0.1 µA to 10 A Accuracy: ± (1.0 % + 2)
Resistor		0.1 Ω to 50 MΩ Accuracy: ± (0.2 % + 1)
Conductivity		60.00 nS Accuracy: ± (1.0 % + 10)
Diode test		2.0 V Accuracy: ± (2.0 % + 1)
Duty cycle		0.0 % to 99.9 % Accuracy: Within ± (0.2 % per kHz + 0.1 %) for rise times <1 µs
Display count rate		6,000 counts / 19,999 counts in high-resolution
Capacitance		10 nF to 9999 µF Accuracy: ± (1.0 % + 2)
Frequency		0.5 Hz to 199.99 kHz Accuracy: ± (0.005 % + 1)
Temperature		-200 °C to +1090 °C (-328 °F to +1994 °F) Accuracy: ± (1.0 % + 10) °C [± (1.0 + 10) °F] Error: % of reading + number of digits
Indicators/operating means		
Display		LC display with backlight
Electrical specifications		
Battery type		3x AAA, type-proofed
Operating duration		approx. 400 h
Ambient conditions		
Ambient temperature		Different temperature ranges result from the type-tested batteries used.
Storage temperature		-40 ... 60 °C (-40 ... 140 °F) , without batteries
Mechanical specifications		
Degree of protection		IP67
Mass		approx. 690 g

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Technical Data

Dimensions	approx. 210 mm x 100 mm x 64 mm (with holster)
International approvals	
NEC/CEC approval	
NEC/CEC marking	U.S. and Canada: Class I Division 1 Group A, B, C, D T4 U.S.: Class I Zone 1 AEx ia IIC T4 Gb Canada: Ex ia IIC T4 Gb
General information	
Note	Remarks: Measurement inside the hazardous area: Ui ≤ 65V, Ii ≤ 5A Measurement outside the hazardous area: Ui ≤ 1000V, Ii ≤ 10A
Scope of delivery	Fluke 28 II EX Ex-holster Alligator clips AC175 Test leads TL175 Batteries Documentation

Accessories

Accessories for this product can be found on the internet at www.pepperl-fuchs.com.

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