



Intrinsically safe digital multimeter

Fluke

28 II EX PCEC

- 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: $\pm (0.05 \% + 1)$
AC voltage	0.1 mV to 1000 V Accuracy: $\pm (0.7 \% + 4)$
DC current	0.1 μ A to 10 A Accuracy: $\pm (0.2 \% + 4)$
AC current	0.1 μ A to 10 A Accuracy: $\pm (1.0 \% + 2)$
Resistor	0.1 Ω to 50 M Ω Accuracy: $\pm (0.2 \% + 1)$
Conductivity	60.00 nS Accuracy: $\pm (1.0 \% + 10)$
Diode test	2.0 V Accuracy: $\pm (2.0 \% + 1)$
Duty cycle	0.0 % to 99.9 % Accuracy: Within $\pm (0.2 \% \text{ per kHz} + 0.1 \%)$ for rise times $< 1 \mu$ s
Display count rate	6,000 counts / 19,999 counts in high-resolution
Capacitance	10 nF to 9999 μ F Accuracy: $\pm (1.0 \% + 2)$
Frequency	0.5 Hz to 199.99 kHz Accuracy: $\pm (0.005 \% + 1)$
Temperature	-200 °C to +1090 °C (-328 °F to +1994 °F) Accuracy: $\pm (1.0 \% + 10) \text{ } ^\circ\text{C}$ [$\pm (1.0 + 10) \text{ } ^\circ\text{F}$] Error: % of reading + number of digits

Indicators/operating means

Display	LC display with backlight
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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		
PCEC approval		
PCEC certificate		CE17.2310X
PCEC marking		Ex ia IIC T4 Gb
General information		
Note	Remarks: Measurement inside the hazardous area: $U_i \leq 65V$, $I_i \leq 5A$ Measurement outside the hazardous area: $U_i \leq 1000V$, $I_i \leq 10A$	
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.