



Intrinsically safe digital multimeter

Fluke

28 II EX ATEX/IECEX

- 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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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

Technical Data

Dimensions	approx. 210 mm x 100 mm x 64 mm (with holster)	
Data for application in connection with hazardous areas		
ATEX approval		
Type examination certificate		PTB 11 ATEX 2028 X
ATEX marking		Ⓜ II 2G Ex ia IIC T4 Gb Ⓜ I M1 Ex ia I Ma
International approvals		
IECEX approval		
IECEX certificate		IECEX PTB 11.0080X
IECEX marking		Ex ia IIC T4 Gb Ex ia I Ma
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.