



Intrinsically safe digital multimeter



Fluke 28 II EX ATEX / IECEx True RMS Multimeter

- 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

Rugged & intrinsically safe multimeter



Technical Data

General specifications

Measurement 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: $\pm (1.0\% + 10) \text{ °C } [\pm (1.0 + 10) \text{ °F}]$

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
Dimensions	approx. 210 mm x 100 mm x 64 mm (with holster)

Data for application in connection with hazardous areas

Release date: 2021-06-16 Date of issue: 2021-06-16 Filename: 481193_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

Technical Data

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		Error: % of reading +number of digits 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

	Spare fuse assembly 440mA	Replacement protection module 440mA for Fluke 28 II EX
	80PK-27	Industrial Surface Temperature Probe
	Leather case w/ carrying strap	Leather case with carrying strap
	i400	AC Current Clamp
	TL175	Test Leads with adjustable length test tips