

Intrinsically Safe Instrument

Fluke 28 II Ex Intrinsically Safe True RMS Digital Multimeter

Now there's an intrinsically safe digital multimeter (DMM) you can use in a wide range of hazardous settings. Whether you work in petroleum, chemical, or pharmaceutical environments, the 28 II Ex gives high-end test and troubleshooting power you need is packed into the most rugged intrinsically safe (IS) DMM Fluke has ever built: drop-proof, waterproof, dust-proof (IP67).

1. Fluke 28 II Ex Intrinsicly Safe True RMS Digital Multimeter



➤ **Key Features**

- A completely sealed, IP67 rated case
- Withstands drops up to 10 ft or 3 m (with holster)
- Dustproof per IEC 60529 IP6x
- Waterproof per IEC 60529 IPx7
- CAT III 1000 V, CAT IV 600 V
- Reversible holster for added protection of the display when not in use

• **Specifications: Fluke 28 II Ex Intrinsicly Safe True RMS Digital Multimeter**

Accuracy Specifications

Accuracy specifications are shown as $\pm(\% \text{ of reading} + \text{number of digits})$

DC voltage	Range	0.1 mV to 1000 V
	Accuracy	$\pm(0.05\% + 1)$
AC voltage	Range	0.1 mV to 1000 V
	Accuracy	$\pm(0.7\% + 4)$
DC current	Range	0.1 μ A to 10 A

	Accuracy	$\pm(0.2\% + 4)$
AC current	Range	0.1 μ A to 10 A
	Accuracy	$\pm(1\% + 2)$
Resistance	Range	0.1 Ω to 50 M Ω
	Accuracy	$\pm(0.2\% + 1)$
Conductance	Range	60.00 nS
	Accuracy	$\pm(1.0\% + 10)$
Diode test	Range	2.0 V
	Accuracy	$\pm(2.0\% + 1)$
Duty cycle	Range	0.0% to 99.9%
	Accuracy	Within $\pm(0.2\%$ per kHz + 0.1%) for rise times <1 μ s
Capacitance	Range	10 nF to 9999 μ F
	Accuracy	$\pm(1\% + 2)$
Frequency	Range	0.5 Hz to 199.99 kHz
	Accuracy	$\pm(0.005\% + 1)$
Temperature	Range	-200°C to +1090°C (-328°F to +1994°F)
	Accuracy	$\pm(1\% + 10)$ °C [$\pm(1\% + 10)$ °F]

Display counts	6000 counts/19,999 counts in high-resolution mode
Peak capture	Record transients up to 250 us
Min/Max/Avg recording	Display signals up to approximately 100 ms

Accuracy specifications are shown as \pm (% of reading + number of digits)

Safety Certifications

ATEX	{Ex} II 2G Ex ia IIC T4 Gb
	{Ex} I M1 Ex ia I Ma
NEC-500	Class I, Div 1, Groups A-D, 130°C
IECEX	Ex ia IIC T4 Gb
	Ex ia I Ma
GOST R Ex	1Ex ia IIC T4 Gb X
	PO Ex ia I Ma X
	IP6X

General Specifications

Power	Three AAA batteries
	Battery life: 400 hours
Display	LCD, with backlight

External protection	Rubber holster
Warranty	Three years
Size with holster (H x W x L)	6.4 x 10.0 x 19.8 cm (2.5 x 3.9 x 7.8 in)
Weight with holster	700 g (1.54 lb)