

TECHNICAL DATA

Fluke 28 II Ex Intrinsically 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

Product overview: 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). The 28 II Ex meets the following certifications:

IECEx (International)

- Ex ia IIC T4 Gb
- Ex ia I Ma



ATEX (Europe)

- II 2G Ex ia IIC T4 Gb
- I M1 Ex ia I Ma



NEC / CEC (North America)

- · Class I, Division 1, Groups A,B,C,D T4
- · Class I, Zone 1, AEx ia IIC T4
- Ex ia IIC T4



PCEC (China)

• Ex ia IÌC T4 Gb



Simtars (Australia)

• Ex ia I Ma



IEx (Brazil)

• Ex ia IIC T4 Gb





All the measurement functions of our most popular industrial DMMs

One tool equips you with all the testing and troubleshooting power you need wherever you go—inside or outside ATEX zones 1 or 2,. No need to carry different meters for different areas, or worry about crossing through an Ex-required zone with a non-Ex rated instrument.

- 4-1/2 digit mode for precise measurements (20 000 counts)
- True-rms ac voltage and current for accurate measurement on nonlinear signals
- Measures up to 1000 V and 10A AC and DC (note that Ex zones require reduced measurements)
- Low pass filter ensures accurate voltage and frequency measurements on variable speed motor drives (VSDs)
- Frequency to 200 kHz and % duty cycle to help you diagnose VSDs and switching power supplies
- Resistance, continuity and diode test
- 10 000 µF capacitance range for components and motor caps
- Conductance measurements for high resistance or leakage tests
- Min/Max-Average and Peak capture to record transients and variations automatically
- Relative mode to remove test lead interference on resistance measurements
- Auto and manual ranging for maximum flexibility
- Input Alert protects you by chirping and flashing "Lead when leads are plugged into the wrong inputs

Easy to use

Important extras keep you productive all day long in less than optimal conditions.

- Backlit keypad buttons provide extra visibility in poorly lit areas, even when you're wearing full PPE
- Large display digits and 2-level bright white backlight also increases visibility
- Long battery life 400 hours typical without backlight (Alkaline)
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks

Easy to service in the field

Access to the separate battery compartment makes it easy to change batteries or fuses without jeopardizing instrument calibration.

Specifications: Fluke 28 II Ex Intrinsically Safe True RMS Digital Multimeter

Accuracy Specifications				
Accuracy specifications are shown as u00b1(% of reading + number of digits)				
DC voltage	Range	0.1 mV to 1000 V		
	Accuracy	u00b1(0.05% + 1)		



AC voltage	Range	0.1 mV to 1000 V	
	Accuracy	u00b1(0.7% + 4)	
DC current	Range	0.1 u03bcA to 10 A	
	Accuracy	u00b1(0.2% + 4)	
AC current	Range	0.1 u03bcA to 10 A	
	Accuracy	u00b1(1% + 2)	
D : 1	Range	0.1 u03a9 to 50 Mu03a9	
Resistance Conductance	Accuracy	u00b1(0.2% + 1)	
	Range	60.00 nS	
	Accuracy	u00b1(1.0% + 10)	
Diode test	Range	2.0 V	
	Accuracy	u00b1(2.0% + 1)	
Duty cycle	Range	0.0% to 99.9%	
	Accuracy	Within u00b1(0.2% per kHz + 0.1%) for rise times <1 u00b5s	
Capacitance	Range	10 nF to 9999 u03bcF	
	Accuracy	u00b1(1% + 2)	
Frequency	Range	0.5 Hz to 199.99 kHz	
	Accuracy	u00b1(0.005% + 1)	
Temperature	Range	-200u00b0C to +1090u00b0C (-328u00b0F to +1994u00b0F)	
	Accuracy	u00b1(1% + 10)u00b0C [u00b1(1% + 10)u00b0F]	
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 u00b1(% of rea	ding + number of digits)	
Safety Certifications			
ATEX	{Ex} II 2G Ex ia IIC T4 Gb		
	{Ex} M1 Ex ia Ma		
NEC-500	Class I, Div 1, Groups A-D, 130u00b0C		
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	IP6X	
General Specifications			



Power	Three AAA baeries	
	Baery life: 400 hours	
Display	LCD, with backlight	
Exteal 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)	



Ordering information



Fluke 28 II Ex

Fluke 28 II Ex Intrinsically Safe True RMS Digital Multimeter

Includes:

- Ex-holster
- Alligator clips
- Test leads
- Batteries
- Quick reference guide



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Fluke Corporation

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