

**TECHNICAL DATA** 

# Fluke 28 II Ex Intrinsically Safe True RMS Digital Multimeter





















## **Key features**

- A compiletely sealed, IP67 rated case
- Withstands drops up to 10 ft or 3 m(with holster)
- Dust proof per IEC 60529 IP6x
- Waterproof per LEC 60529 LPx7
- 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 noultineter (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) DMMFI uke has ever built: drop-proof, waterproof, dust-proof (IP67). The 28 II Ex meets the following certifications:

#### **IECEx (International)**

- Exia IIC T4 Gb
- Exial Ma



#### **ATEX (Europe)**

- ·II 2G Ex ia II C T4 Gb
- •IM Exial Ma



#### **NEC / CEC (North America)**

- · Class I, Division 1, Groups A, B, C, D
- · Class I, Zone 1, AEx ia IIC T4
- ExialICT4



#### PCEC (China)

• Ex ia II C T4 Gb



#### Simtars (Australia)

• Exial Ma



#### IEx (Brazil)

• ExialICT4 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 neters for different areas, or worry about crossing through an Ex-required zone with a non-Ex rated instrument.



- 4-1/2 digit noode for precise neasurements (20 000 counts)
- True-rns ac voltage and current for accurate neasurement on nonlinear signals
- Measures up to 1000 V and 10A AC and DC (note that Ex zones require reduced neasurements)
- Low pass filter ensures accurate voltage and frequency neasurements on variable speed notor 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 neasurements for high resistance or leakage tests
- N/In/Max-Average and Peak capture to record transients and variations automatically
- Relative mode to remove test lead interference on resistance measurements
- Auto and nanual ranging for naxinumflexibility
- 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 vol tage	Range	0.1 mV to 1000 V	
	Accur acy	u00b1(0.05% + 1)	
AC vol tage	Range	0.1 nV to 1000 V	
	Accur acy	u00b1(0.7% + 4)	
DC current	Range	0.1 u03bcA to 10 A	
	Accur acy	u00b1(0.2% + 4)	
AC current	Range	0.1 u03bcA to 10 A	
	Accur acy	u00b1(1% + 2)	
Resi st ance	Range	0.1 u03a9 to 50 Mu03a9	
	Accur acy	u00b1(0.2% + 1)	
Conduct ance	Range	60.00 nS	
	Accur acy	u00b1(1.0%+10)	



Di ode test	Range	20 V	
	Accuracy	u00b1(2 0%+ 1)	
Duty cycle	Range	0.0%to 99.9%	
	Accur acy	Within u00b1(0.2% per kHz + 0.1%) for rise times <1 u00b5s	
Capacitance	Range	10 nF to 9999 u03bcF	
	Accuracy	u00b1(1% + 2)	
Fr equency	Range	0.5 Hz to 199.99 kHz	
	Accuracy	u00b1(0.005% + 1)	
Tenperature	Range	-200u00b0C to +1090u00b0C (-328u00b0F to +1994u00b0F)	
	Accuracy	u00b1(1% + 10) u00b0C [ u00b1(1% + 10) u00b0F]	
Di spl ay counts	6000 counts/19,999 counts in high-resolution mode		
Peak capture	Record transients up to 250 us		
Niln/Nax/Avg recording	Display signals up to approximately 100 ms		
Accuracy specifications are s	hown as u00b1(% of readin	ng + nunber of digits)	
Safety Certifications			
ATEX	{Ex} II 2G Ex ia II C T4 Gb		
	{Ex} I M Exial Ma		
NEG 500	Class I, Div 1, Groups A-D, 130u00b0C		
l EŒx	ExialICT4 Gb		
	Exial Ma		
COST R Ex	1Ex ia II C T4 Gb X		
	PO Exial MaX		
	I P6X		
General Specifications			
Power	Three AAA baeries		
	Baery life: 400 hours		
Di spl ay	LCD, with backlight		
Exteal protection	Rubber hol ster		
Warrant y	Three years		
Size with holster (Hx Wx L)	6.4 x 10.0 x 19.8 cm(2.5 x 3.9 x 7.8 i n)		
Weight with holster	700 g (1.54 l b)		



## **Ordering information**



Fluke 28 II Ex/AU



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