

Fluke 27 II, 28 II and 28 II Ex Industrial IP67 Digital Multimeters



Fluke 27 II

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The 27 II, 28 II and 28 II Ex-AU Digital Multimeters are designed for tough work environments. All three meters have IP 67 waterproof and dustproof rating. They provide an extended operating temperature range of -15° C to 55° C (5° F to 131° F) and 95% humidity.

- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28 II, 28 II Ex)
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument (28 II, 28 II Ex)
- Hi-resolution 20000 count display mode (28 II, 28 II Ex)
- Resistance and continuity. Relative mode to remove test lead resistance from low ohms measurements
- Large digit display with bright, two-level backlight
- Backlit keypad buttons allow for easy visibility in low-lit areas
- Optional magnetic hanger for easy setup and viewing, freeing your hands for other tasks
- Intrinsically safe certifications from the world's leading certification bodies (28 II Ex)
- Limited lifetime manufacturer's warranty

Features	27 II	28 II	28 II Ex
Tested to withstand a 3 m drop	●	●	●
Wide 1000 V measurement range	●	●	●
True-RMS AC voltage and current for accurate measurements on non-linear signals	-	●	●
Average responding voltage and current measurements	●	-	-
Low pass filter	-	●	●
Temperature	-	●	●
10 A continuous (20 A for 30 seconds)	●	●	●
Frequency and capacitance	●	●	●
Record signal fluctuations using the Min/Max function	●	●	●

Specifications	27 II	28 II	28 II Ex
DC voltage	Range	0.1 mV to 1000 V	
	Accuracy	0.05% + 1	0.05% + 1
AC voltage	Range	0.1 mV to 1000 V	
	Accuracy	0.5% + 3	0.7% + 4
DC current	Range	0.1 µA to 10 A	
	Accuracy	0.2% + 4	0.2% + 4
AC current	Range	0.1 µA to 10 A	
	Accuracy	1.5% + 2	1.0% + 2
Resistance	Range 0.1 Ω to 50 MΩ		
Display counts	6000	6000/19,999	6000/19,999
Capacitance	1 nF to 9999 µF		10 nF to 9999 µF
Frequency	0.5 Hz to 199.99 kHz		
Temperature	-	-200° C to 1090° C (-328° F to 1994° F)	
Low pass filter (measurement on VSD's)	-	Yes	Yes
Compliance	IEC 61010-2-033: CAT IV 600 V, CAT III 1000 V		
Measurement method	Avg. responding	True-RMS	True-RMS
Power	Three AA batteries		
Battery life	800 hours	400 hours	
Dimensions (DxWxH)	6.35 x 10.0 x 19.81 cm (2.5 x 3.93 x 7.8 in)		
Weight with holster	700 g (24.69 oz)		

Specialty Models

Fluke 28 II Ex-ETL Intrinsically Safe True-RMS Multimeter

CAT III 1000V/CAT IV 600V electrical safety rating

II 2G Ex ia IIC T4



Recommended Accessories



TPAK
Magnetic Meter Hanger



TLK-225
SureGrip™ Master Accessory Set



i2000 FLEX
AC Current Clamp Test Lead Kit



i410
AC/DC Current Clamp



CXT80
Extreme Hard Case



C37XT
EVA Foam Hard Case



TL175
TwistGuard™ Test Leads

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, 80BK-A Temperature Probe (28 II), holster, user manual and three AA batteries (installed).

Ordering Information

FLUKE-27II	Industrial Multimeter
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FLUKE-28IIEx	Intrinsically Safe Industrial Multimeter

Contact your local distributor for price and availability.
fluke.com/wtb