

27II / 28II Rugged IP67 Industrial Multimeters

FLUKE®



Fluke 27 II



Fluke 28 II

True RMS



Fluke 28II Ex



On all inputs



Designed to survive water, dust and rough handling and yet troubleshoot most electrical problems

The Fluke 27 II and 28 II digital multimeters define a new standard for operating in harsh conditions with the features and accuracy to troubleshoot most electrical problems. Both meters have IP 67 (waterproof and dustproof) rating, MSHA approvals, extended operating temperature range of -15° C to + 55°C and 95% humidity, and a 3-meter drop. They withstand hazardous 8.000 volt spikes caused by load switching and faults on industrial circuits and complies

with second edition IEC and ANSI electrical safety standards. Furthermore, the 28 II has a unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment. The new Fluke 20 series multimeters are built to work in the toughest environments. For 28II Ex see also page 135 and 136.

Features

	27 II	28 II / 28 II Ex
IP 67 waterproof & dustproof protection	●	●
Withstands 3 meter drop (with holster)	●	●
True-RMS measurements		●
Digital display counts	6000	20000/6000
Bright, two-level backlight	●	●
Backlit keypad buttons	●	●
Reversible, rubber holster	●	●
Built-in thermometer		●
Resistance, continuity and diode test	●	●
Min/Max and average recording	●	●
Improved sleep mode for long battery life	●	●
Relative mode to remove test lead resistance from low ohms measurements	●	●
Auto and manual ranging	●	●
Safety rating	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V 28 II Ex
ATEX safety rating II 2 G Ex ia IIC T4 Gb II 2 D Ex ia IIIC T130°C Db I M1 Ex ia I Ma		

Specifications

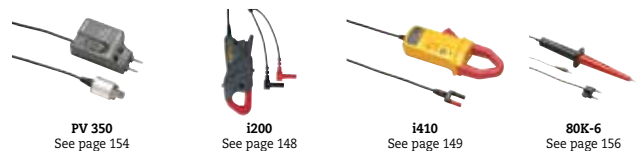
Functions	Maximum	Max. Resolution	27 II	28 II / 28 II Ex
Voltage DC	1000 V	0.1 mV	±(0.1% + 1)	±(0.05% + 1)
Voltage AC	1000 V	0.1 mV	±(0.5% + 3)	±(0.7% + 4)
Current DC	10 A	0.1 µA	±(0.2% + 4)	±(0.2% + 4)
Current AC	10A	0.1 µA	±(1.5% + 2)	±(1.0% + 2)
Temperature	-200°C to +1090°C	0.1°C		±(1% + 10)
Resistance	50MΩ	0.1Ω	±(0.2% + 1)	
Low pass filter (Measurement on VSD's)				yes
Capacitance	9999µF	0.01nF	±(1% + 2)	
Frequency	200 kHz	0.01 Hz	0.005% + 1	
Peak transient capture				250 µS

Accuracies are best accuracies for each function

Battery Life: 3x AA alkaline, 800 hrs typical
Size (HxWxD): 198 x 100 x 63.5 mm

Weight: 0.75 kg
Lifetime Warranty

Recommended Accessories



PV 350
See page 154

i200
See page 148

i410
See page 149

80K-6
See page 156