

Rugged IP67-Rated Industrial Multimeters

Built to work in the toughest environments

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 IP67 (waterproof and dustproof) rating, MSHA approval extended operating temperature range of 5 to 131°F (–15 to 55°C) and 95% humidity, and can withstand a 10-ft (3-m) drop.



20034-41



20034-42

Measures

- Measure up to 1000 VAC and VDC
- Measure up to 10 A (20 A for 30 seconds)
- 10,000 μ F capacitance range
- Frequency to 200 kHz
- Extended AC voltage bandwidth—15 Hz to 20 kHz
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument
- Resistance, continuity and diode test
- Min/Max and average recording to capture variations automatically
- True RMS AC voltage and current (28-II only)
- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28-II only)

Features

- IP67-rated waterproof and dustproof protection, impervious to the harshest environments
- Designed to withstand 10-ft (3-m) drop
- High-resolution 20,000 count display mode (28-II)
- True-RMS AC voltage and current for accurate measurements on nonlinear signals (28-II)
- Average responding voltage and current for measurements (27-II)
- Easy-to-read display with large digits and a bright, two-level backlight
- Backlit keypad buttons allow for easy visibility in low-lit areas
- Large display digits and two-level bright white backlight for increased visibility
- Reversible holster for added protection when not in use
- Withstands hazardous 8000 volt spikes caused by load switching and faults on industrial circuits, and complies with second edition IEC and ANSI electrical safety standards
- Improved sleep mode for long battery life
- Relative mode to remove test lead resistance from low ohms measurements
- Auto and manual ranging for maximum flexibility
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks
- MSHA approved

SPECIFICATIONS			
Model No.		27-II	28-II
DC voltage	Max resolution	0.1 mV to 1000 V	
	Accuracy	0.5% + 1	0.05% + 1
AC voltage	Max resolution	0.1 mV to 1000 V	
	Accuracy	0.5% + 3	0.7% + 4
DC current	Max resolution	0.1 μ A to 10 A	
	Accuracy	0.2% + 4	0.2% + 4
AC current	Max resolution	0.1 μ A to 10 A	
	Accuracy	1.5% + 2	1.5% + 2
Resistance	Max resolution	0.1 Ω to 50 M Ω	
Display counts		6000	6000 / 19,999
Capacitance		1 nF to 9999 μ F	
Frequency		0.5 Hz to 199.99 kHz	
Temperature		—	–200 to 1090°C
Low pass filter (measurement on VSD's)		—	Yes
Dimensions (W x H x D)		3 $\frac{3}{4}$ " x 8" x 2 $\frac{3}{16}$ " (95 x 203 x 56 mm)	
Power		Three AA batteries	
Battery life		800 hrs	

What's included: Test leads, alligator clips, holster, and three AA batteries.

Catalog No.	Model No.	Description	
TS-20044-41	27-II	Industrial multimeter, IP67-rated	
TS-20044-42	28-II	Industrial True RMS multimeter, IP67-rated	
Accessories			
TS-20018-56	TPAK	Magnetic meter hanging kit	
TS-26012-75	TL75	Test lead set	
TS-09386-01	—	Replacement batteries, AA, 4/pk	
TS-17100-00	—	NIST-traceable calibration with data	