

Rugged Multimeters: Fluke 27 II/28 II Industrial Multimeters

FLUKE®

Features



- Measure up to 1000 V ac and dc
- Measure up to 10 A (20 A for 30 seconds)
- 10,000 μF capacitance range
- Frequency to 200 kHz
- Extended ac voltage bandwidth- 15 Hz to 20 kHz (28 II), 40 Hz to 30 kHz (27 II)
- Built in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument (28 II)
- Resistance, continuity and diode test
- Min/Max and average recording to capture variations automatically
- Peak min-max (28 II)
- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28 II)



Features:

- **New** - IP 67 waterproof & dustproof protection, completely sealed for use in harsh environments
- Designed to withstand 3 meter drop (with holster)
- Hi resolution 20,000 count display mode (28 II)
- True-rms ac voltage and current for accurate measurements on non linear signals (28 II)
- Average responding voltage and current for measurements (27 II)
- **New** - Backlit keypad buttons allow for easy visibility in lowlit areas
- Large display digits and 2 level bright white backlight for increased visibility
- Reversible holster for added protection when not in use
- Withstands 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
- Long battery life (800 hours)
- 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 approval



Shock and vibration



Durable/ waterproof



Water and humidity



Dirt and dust



Tested-tough buttons



Military spec



Temperature range



Backlight



CAT III/
CAT IV rating



Specifications

Accuracy specifications

DC voltage	Range 0.1 mV to 1000 V Accuracy 27-II: 0.1 % +1 28-II: 0.05 % + 1
AC voltage	Range 0.1 mV to 1000 V Accuracy 27-II: 0.5 % +3 28-II: 0.7 % +4
DC current	Range 0.1 μ A to 10 A Accuracy 27-II: 0.2 % + 4 28-II: 0.2 % + 4
AC current	Range 0.1 μ A to 10 A Accuracy 27-II: 1.5 % + 2 28-II: 1.0 % + 2
Resistance	Range 0.1 Ω to 50 M Ω
Display counts	27-II 6000 28-II 6000/19,999
Capacitance	1 nF to 9999 μ F
Frequency	0.5 Hz to 199.99 kHz
Temperature	27-II: N/A 28-II: -200 °C to +1090 °C
Low pass filter (Measurement on VSD's)	27-II: N/A 28-II: Yes
Compliance	CAT IV 600 V , CAT III 1000V
IP rating	27-II: IP 67 28-II: IP 67
Power	Three AA batteries
Battery life	800 hours

General specifications

Display	Bar graph/backlight Yes/Yes
Data storage	Peak transient capture 250 μ S (28 II) Min/Max/Avg Yes Reading hold Yes
Other features	Relative readings (zero) Yes Battery type Three AA batteries
Warranty and protection	Safety rating CAT IV 600 V/CAT III 1000 V Mine Safety MSHA Approved External protection Rubber holster Drop test 10 feet drop test Dustproof/waterproof Yes, IP 67 rated Warranty Limited lifetime Size (HxWxL) with holster 6.35 cm x 10.0 cm x 19.81 cm (2.5 in x 3.93 in x 7.8 in) Weight with holster 698.5 g (1.54 lb)