

Fluke 170 Series Digital Multimeters

Maintenance experts can find most electrical and HVAC problems

The Fluke 170 Series True-rms Multimeters is simple to use with significant improvements over the original Fluke 70 Series.

- Wide 1000 V measurement range
- True-rms for precise measurement of non-linear signals
- · Capacitance, resistance, continuity and frequency
- Built-in thermometer (Fluke 179 only)
- Backlight for work in dimly lit areas (Fluke 177 and 179 only)
- Min/Max/Avg to record signal fluctuations
- · Display hold and auto hold
- · Manual and automatic ranging
- Basic dc accuracy (179/0.09 %, 177/0.09 %, 175/0.15 %)
- Also available: 177 with true-rms and backlight and 175 with true-rms

Specifications

DC voltage	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 0.09 % (Models 177 and 179) ± 0.15 % (Model 175)
AC voltage1	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 1.0% of reading
DC current	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.0% of reading
AC current ²	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.5% of reading
Resistance	600.0 Ω , 6.000 k Ω , 60.00 k Ω , 600.0 k Ω ,	± 0.9% of reading
Capacitance	1000 ոF, 10.00 μF, 100.0 μF, 9999 μF	± 1.2% of reading
Frequency ³	99.99 Hz, 999.9 Hz, 9.999 kHz, 99.99 kHz	± 0.1 % of reading
Temperature (179 only)	-40 °C to +400 °C (-40 °F to +752 °F)	1.0% of reading
Battery life	200 hours typical for alkaline	
Dimensions (HxWxL)	4.3 cm x 9.0 cm x 18.5 cm (1.7 in x 3.5 in x 7.3 in)	

 $^{^1\}text{All}$ ac voltage and ac current ranges are specified from 5 % of range to 100 % of range. $^2\text{10}$ A continuous, 20 A for up to 30 seconds.

Ordering information

Models	Included accessories
FLUKE-179 Digital Multimeter	TL75 Test leads, temperature probe, 9 V battery (installed), manual
FLUKE-177 Digital Multimeter	TL75 Test leads, 9 V battery (installed), manual
FLUKE-175 Digital Multimeter	TL75 Test leads, 9 V battery (installed), manual



















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Recommended accessories





³Voltage frequency is specified from 2 Hz to 100 kHz. Current frequency is specified from 2 Hz to 30 kHz.























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

Designed for tough work environments

The 27 II, 28 II and 28 II Ex Digital Multimeters all have IP67 waterproof and dustproof rating. They also have an extended operating temperature range of -15 °C to +55 °C (5 °F to 131 °F) and 95 % humidity. These meters offer unique functions for accurate voltage and frequency measurements on adjustable speed motor drives and electrically noisy equipment (28 II and 28 II Ex). A built in thermometer allows you to take temperature readings without having to carry a separate instrument.

- · Resistance and continuity. Relative mode to remove test lead resistance from low ohms measurements
- MSHA, CSA and TÜV approvals (27 II, 28 II)
- Intrinsically safe certifications from the world's leading certification bodies (28 II Ex, pg 67)
- Tested to withstand a 3 m (10 ft) drop
- Wide 1000 V measurement range
- True-rms ac voltage and current for accurate measurements on non-linear signals (28 II, 28 II Ex)
- Low pass filter (28 II, 28 II Ex)
- Average responding voltage and current measurements (27 II)
- 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
Volts ac, dc	1000 V		
Amps ac, dc	10A		
Resistance	0.1 0 to 50 MΩ		
Display counts	6000	6000/19,999	6000/19,999
Temperature	-200 °C to +1090 °C -200 °C to +1090 °C		-200 °C to +1090 °C
Low pass filter (measurement on VSD's)		•	•
Safety rating (EN 61010)	CAT IV 600 V, CAT III 1000 V		
Measurement method	Avg. responding True-rms True-rms		True-rms
Power	Three AA batteries		
Battery life	800 hours 400 hours		
Dimensions (DxWxH)	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)		

Ordering information

Models	Included accessories
FLUKE-28-II Industrial Multimeter	Test leads, temperature probe, alligator clips, batteries, holster, information pack
FLUKE-28-II EX Intrinsically Safe Industrial Multimeter See page 67 for more information	Test leads, temperature probe, alligator clips, batteries, holster, information pack
FLUKE-27-II Industrial Multimeter	Test leads, temperature probe, alligator clips, batteries, holster, information pack

Recommended accessories







TL225 Stray Voltage Adapter Test Lead Kit



C550 Tool Bag



Fluke 88V and 77 IV Digital Multimeters

Fluke 88V Automotive Multimeter—designed to help automotive professionals solve problems faster

The Fluke 88V Automotive Multimeter has the measurement functions, troubleshooting features and accuracy to solve virtually any problem with conventional and hybrid vehicles.

- Automotive test functions include dc and ac voltage, resistance and current
- Min/Max recording for logging the highest and lowest readings over time
- Frequency measurements for magnetic sensors and ac/dc frequency signals
- Duty cycle for variable duty cycle signals with selectable trigger, slope and level
- Pulse width for fuel injector on-time measurements
- Conductance testing for secondary ignition coils
- RPM measurements for DIS and conventional ignition systems
- Built-in thermometer

Fluke 77 IV Digital Multimeter—use to repair most electrical and electronic problems

The Fluke 77 IV Digital Multimeter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that is easier to view.

- Wide 1000 V measurement range
- · Average responding ac measurements
- 0.3 % accuracy
- 10 amps continuous
- Frequency and capacitance
- · Resistance and continuity
- Min/Max to record signal fluctuations
- Auto and manual ranging

Specifications

BSV 77IV DC voltage 1000 V 1000 V AC voltage 1000 V 1000 V DC current 10 A 10 A AC current 10 A 10 A Resistance 50 MΩ 50 MΩ Capacitance 9,999 μF 9,999 μF	-		
AC voltage 1000 V 1000 V DC current 10 A 10 A AC current 10 A 10 A Resistance 50 MΩ 50 MΩ		88V	77IV
DC current 10 A 10 A AC current 10 A 10 A Resistance 50 MΩ 50 MΩ	DC voltage	1000 V	1000 V
AC current 10 A 10 A Resistance 50 MΩ 50 MΩ	AC voltage	1000 V	1000 V
Resistance $50 \text{ M}\Omega$ $50 \text{ M}\Omega$	DC current	10 A	10 A
	AC current	10 A	10 A
Capacitance 9,999 µF 9,999 µF	Resistance	50 ΜΩ	50 ΜΩ
	Capacitance	9,999 µF	9,999 μF
Frequency 200.00 kHz 99.99 kHz	Frequency	200.00 kHz	99.99 kHz
Duty Cycle 99.9 %	Duty Cycle	99.9%	
Temperature 1994.0 °F (1090 °C)	Temperature	1994.0 °F (1090 °C)	
Conductance 60.00 nS	Conductance	60.00 nS	

Ordering information

Models	Included accessories	
FLUKE-88-5 Automotive Multimeter	Test leads, 9 V battery (installed), information packet	
FLUKE-77-4 Digital Multimeter	Test leads. 9 V battery (installed), information packet	

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Recommended accessories































