

MEASURING EQUIPMENT Fluke 170 Series Digital multimeters

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German Cathodic Protection



The three models of the new 170 Series are the new benchmarks for general purpose multimeters. They set the standard with a combination of precision, features, ease-of-use, safety and reliability.

Features

- True RMS voltage and current measurements
- 0.09% basic accuracy (177, 179)
- 6000 count resolution Digital display with analog bargraph and backlight (177, 179)
- Manual and automatic ranging
- Display Hold and Auto Hold
- Frequency and capacitance measurements
- Resistance, continuity and diode measurements
- Temperature measurements (179)
- Min-max-average recording
- Smoothing mode allows filtering of rapidly changing inputs
- Easy battery exchange without opening the case
- Closed case calibration through front panel
- Ergonomic case with integrated protective holster
- EN61010-1 CAT III 1000V / CAT IV 600V
- Measures twice as fast as other multimeters

Safety conformance

All inputs are protected to IEN61010-1 CAT IV 600V/CAT III 1000V. UL, CSA, TÜV listed and VDE Pending

Specifications		
Voltage DC	175 - Accuracy*	± (0.15%+2)
	177 - Accuracy*	± (0.09%+2)
	179 - Accuracy*	± (0.09%+2)
	Max. Resolution	0.1 mV
Maximum		1000 V
Voltage AC	Accuracy*	± (1.0%+3)
	Max. Resolution	0.1 mV
	Maximum	1000 V
Current DC	Accuracy*	± (1.0%+3)
	Max. Resolution	0.01 mA
	Maximum	10 A
Current AC	Accuracy*	± (1.5%+3)
	Max. Resolution	0.01 mA
	Maximum	10 A
Resistance	Accuracy*	± (0.9%+1)
	Max. Resolution	0.1 Ω
	Maximum	50 MΩ
Capacitance	Accuracy*	± (1.2%+2)
	Max. Resolution	1 nF
	Maximum	10,000 μF
Frequency	Accuracy*	± (0.1%+1)
	Max. Resolution	0.01 Hz
	Maximum	100 kHz
Temperature	179 - Accuracy*	± (1.0%+10)
	Max. Resolution	0.1°C
	Range	-40°C/400°C
Note	* Accuracies are best accuracies for each function	

Environmental Specifications	
Operating Temperature	-10°C to +50°C
Storage Temperature	-30°C to +60°C
Humidity (Without Condensation)	0% - 90% (0°C - 35°C)
	0% - 70% (35°C - 50°C)



Fluke 175



Fluke 177



Fluke 179

Safety Specifications

Overvoltage category	EN 61010-1 to 1000 V CAT III. EN 61010-1 to 600 V CAT IV.
Agency Approvals	UL, CSA, TÜV listed and VDE Pending

Mechanical & General Specifications

Size	43 x 90 x 185 mm
Weight	420 g
Warranty	Lifetime
Battery Life	Alkaline: ~200 hours typical, without backlight

Accessories

C510 Leather Meter Case



- Oiled genuine top grain cowhide
- Rugged construction with heavy duty stitching and reinforced rivets
- Large tool belt loop and top flap to secure meter
- Holds most Fluke DMMs, Thermometers, and Process Calibrators

TLK-225 SureGrip™ Master Accessory Set



Kit includes all the SureGrip™ leads and probes in a handy roll-up pouch:

- AC220 SureGrip™ Alligator Clip Set
- AC280 SureGrip™ Hook Clip Set
- AC283 SureGrip™ Pincer Clip Set
- AC285 SureGrip™ Large Jaw Alligator Clip Set
- TP220 SureGrip™ Test Probe Set
- TL224 SureGrip™ Silicone Test Lead Set
- 6-Pocket Storage Pouch

TLK-220 US SureGrip™ Industrial Test Lead



Special value SureGrip Set for industrial applications. Includes two sizes of alligator clips and sharp test probes for reliable connections, test leads and a roomy carry case to hold and protect your meter and all your accessories. All 1000 V CAT III, 600 V CAT IV rated.

Included with set:

- AC220 Plunger Style Alligator Clips
- AC285 Large Jaw Alligator Clips
- TP220 Sharp Test Probes
- TL224 Right to Straight Test Leads
- Zippered Vinyl Carry Case with Moveable Divider