

374 and 375 True-RMS AC/DC Clamp Meters

Work horse clamps with increased performance and flexibility

The new Fluke 374 and 375 clamp meters offer improved performance perfect for many current measurement situations. With True-RMS ac voltage and current measurements, the Fluke 374 and 375 can read up to 600 V and 600 A in both ac and dc modes. Additionally, both are compatible with the new iFlex™ flexible current probe (sold separately) which expands the measurement range to 2500 A ac and provides increased display flexibility, ability to measure around awkward sized conductors and improved wire access.



Technical Data

Measurement capability

- 600 A ac and dc current measurement with fixed jaw
- 2500 A ac current measurement with iFlex™ flexible current probe (sold separately)
- 600 V ac and dc voltage measurement
- True-RMS ac voltage and current for accurate measurements on non-linear signals
- Frequency measurement to 500 Hz with both jaw and iFlex™ (Fluke 375 only)
- Resistance measurement to 60 k Ω (Fluke 375) or 6000 Ω (Fluke 374) with continuity detection
- Min, max, average and inrush recording to capture variations automatically
- 500 mV dc measurement range to interface with other accessories (Fluke 375 only)
- 1000 μ F capacitance measurement

Features

- iFlex™ flexible current probe expands the measurement range to 2500 A ac while providing increased display flexibility, ability to measure awkward sized conductors and improved wire access
- CAT IV 600V, CAT III 1000 V safety rating
- Integrated low pass filter (Fluke 375 only) and state of the art signal processing allows for use in noisy electrical environments while providing stable readings

- Proprietary inrush measurement technology to filter out noise and capture motor starting current exactly as the circuit protection sees it
- Ergonomic design fits in your hand and can be used while wearing personal protective equipment
- Large, easy to read, backlight display automatically sets the correct measurement range so you do not need to change switch positions while taking a measurement
- Three-year warranty
- Soft carrying case

Specifications

Fluke 374 and 375	Range	Max Resolution	Accuracy
AC current via jaw	600 A	0.1 A	2 % ± 5 digits
AC current via iFlex™ (optional)	2500 A	0.1 A	3 % ± 5 digits
DC current	600 A	0.1 A	2 % ± 5 digits
AC voltage	600 V	0.1 V	1.5 % ± 5 digits
DC voltage	600 V	0.1 mV (375) 0.1 V (374)	1 % ± 5 digits
Resistance	60,000 Ω (375) 6000 Ω (374)	0.1 Ω	1 % ± 5 digits
Frequency (375 only)	500 Hz	0.1 Hz	0.5 % ± 5 digits
Capacitance	1 µF to 1000 µF	1 µF	1 % ± 4 digits
True-RMS		•	
Continuity		•	
Hold		•	
Backlight		•	
Min/Max		•	
Inrush		•	
Low pass filter		Fluke 375 only	
45 cm (18 inch) iFlex™ Flexible Current Probe		Optional accessory	
25 cm (10 inch) iFlex™ Flexible Current Probe		Optional accessory	
Wire capacity		34 mm	
Safety rating		CAT III 1000 V, CAT IV 600 V	

Models	Feature Changes
Old model: Fluke 337	
New model: Fluke 376	Includes all 337 features plus: • CAT IV 600 V, CAT III 1000 V • iFlex™ 2500 A ac • 1000 V ac/dc • mV dc • 60 kΩ • 1000 µF
Old model: Fluke 336	
New model: Fluke 375	Includes all 336 features plus: • CAT IV 600 V, CAT III 1000 V • Optional iFlex™ 2500 A ac • mV dc • 60 kΩ • 1000 µF • Min/Max/Avg
New model: Fluke 374	Includes all 336 features (except low pass filter) plus: • CAT IV 600 V, CAT III 1000 V • Optional iFlex™ 2500 A ac • 1000 µF • Min/Max/Avg
Old model: Fluke 335	
New model: Fluke 374	Includes all 335 features plus: • CAT IV 600 V, CAT III 1000 V • Optional iFlex™ 2500 A ac • 600 A ac/dc • 1000 µF • Min/Max/Avg
New model: Fluke 373	Includes all 335 features (except inrush) plus: • CAT IV 300 V, CAT III 600 V • 1000 µF
Old model: Fluke 334	
New model: Fluke 374	Includes all 334 features plus: • CAT IV 600 V, CAT III 1000 V • Optional iFlex™ 2500 A ac • True-RMS • 600 A ac/dc • 1000 µF • Min/Max/Avg
New model: Fluke 373	Includes all 334 features (except inrush) plus: • CAT IV 300 V, CAT III 600 V • True-RMS • 1000 µF
Old model: Fluke 333	
New model: Fluke 373	Includes all 333 features plus: • CAT IV 300 V, CAT III 600 V • True-RMS • 600 A ac • 6000 Ω • 1000 µF

Ordering information

Fluke 374 True-RMS AC/DC
Clamp Meter

Fluke 375 True-RMS AC/DC
Clamp Meter

Optional accessories

i2500-10 iFlex™ Flexible Current
Probe 25 cm (10 inches)

i2500-18 iFlex™ Flexible Current
Probe 45 cm (18 inches)



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Pub_ID: 11665-eng

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Fluke 114 Electrical Multimeter

Technical Data



Compact true-rms meter for electrical troubleshooting

The Fluke 114 is the troubleshooting tool for “go/no-go” testing. It includes a feature to prevent false readings caused by ghost voltage.

Features include:

- AutoVolt: automatic ac/dc voltage selection
- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Min/Max/Average to record signal fluctuations
- CAT III 600 V safety rated

General specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 90 %.

The accuracy specifications take the form of:
 $\pm ([\% \text{ of Reading }] + [\text{Counts}])$

Maximum voltage between any terminal and earth ground	600 V
Surge protection	6 kV peak per IEC 61010-1 600 V CAT III, Pollution Degree 2
Display	Digital: 6,000 counts, updates 4/sec
Bar graph	33 segments, updates 32/sec
Operating temperature	-10 °C to + 50 °C
Storage temperature	-40 °C to + 60 °C
Battery	9 volt Alkaline, NEDA 1604A/IEC 6LR61
Battery life	400 hours typical, without backlight

Actual size



Accuracy specifications

Measurement	Range	Resolution	Accuracy \pm ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	0.5 % + 2
DC volts	6.000 V	0.001 V	0.5 % + 2
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Auto volts	600.0 V	0.1 V	2.0 % + 3 (dc, 45 Hz to 500 Hz) 4.0 % + 3 (500 Hz to 1 kHz)
AC millivolts ¹ true-rms	600.0 mV	0.1 mV	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
AC volts ¹ true-rms	6.000 V	0.001 V	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Continuity	600 Ω	1 Ω	Beeper on < 20 Ω , off > 250 Ω ; detects opens or shorts of 500 μ s or longer.
Ohms	600.0 Ω	0.1 Ω	0.9 % + 2
	6.000 k Ω	0.001 k Ω	0.9 % + 1
	60.00 k Ω	0.01 k Ω	
	600.0 k Ω	0.1 k Ω	
	6.000 M Ω	0.001 M Ω	
	40.00 M Ω	0.01 M Ω	1.5 % + 2

Notes:

¹ All ac voltage ranges are specified from 1 % to 100% of range. Because inputs below 1 % of range are not specified, it is normal for this and other true-rms meters to display non-zero readings when the test leads are disconnected from a circuit or are shorted together. For volts, crest factor of ≤ 3 at 4000 counts, decreasing linearly to 1.5 at full scale. AC volts is ac-coupled. Auto-V LoZ, and ac mV are dc-coupled.

Ordering Information

Fluke-114 Electrical Multimeter

Included

TL75 Test leads, holster, User's manual and 9 V battery (installed).



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Printed in U.S.A. 10/2006 2634055 D-EN-N Rev B