

376 True-rms AC/DC Clamp Meter with iFlex™

Work horse clamps with increased
performance and flexibility

The new Fluke 376 Clamp Meter offers improved performance perfect for a wide range of current measurement situations. With true-rms ac voltage and current measurements, the Fluke 376 can read up to 1000 V and 1000 A in both ac and dc modes. Additionally, the Fluke 376 includes the new iFlex™ flexible current probe expanding the measurement range to 2500 A ac while providing increased display flexibility, ability to measure around awkward sized conductors and improved wire access. The Fluke 376 is the direct replacement for the Fluke 337 Clamp Meter.

A photograph of the Fluke 376 True-rms AC/DC Clamp Meter. The meter is yellow and black, with a red clamp. The digital display shows '2500'. A red iFlex flexible current probe is attached to the side. A black cable is also visible. A large yellow oval with the word 'New' in black is overlaid on the image. Several certification logos are present: a lightning bolt symbol with '1000 V CAT III 600 V CAT IV', 'True RMS', 'CE', 'SP US', 'N10140', and 'TUV'.

True
RMS



Technical Data

Measurement capability

- 1000 A ac and dc current measurement with fixed jaw
- 2500 A ac current measurement with iFlex™ flexible current probe
- 1000 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™
- 60 kΩ resistance measurement with continuity detection
- Min, max, average and inrush recording to capture variations automatically
- 500 mV dc measurement range to interface with other accessories
- 1000 μF 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 600 V, CAT III 1000 V safety rating
- Integrated low pass filter 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 376	Range	Resolution	Accuracy
AC current via jaw	999.9 A	0.1 A	2 % ± 5 digits
AC current via iFlex™	2500 A	0.1 A	3 % ± 5 digits
DC current	999.9 A	0.1 A	2 % ± 5 digits
AC voltage	1000 V	0.1 V	1.5 % ± 5 digits
DC voltage	1000 V	0.1 mV	1 % ± 5 digits
Resistance	60,000 Ω	0.1 Ω	1 % ± 5 digits
Frequency	500 Hz	0.1 Hz	0.5 % ± 5 digits
Capacitance	1000 µF	1 µF	1 % ± 4 digits
True-rms		•	
Continuity		•	
Hold		•	
Backlight		•	
Min/Max/Avg		•	
Inrush		•	
Low pass filter		•	
18 in iFlex Flexible™ Current Probe		Included	
10 in iFlex Flexible™ Current Probe		Accessory	
Wire capacity		750 MCM or 2-500 MCM	
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

376 True-rms AC/DC Clamp Meter with iFlex™

Included

Clamp meter, 18-inch iFlex™ probe, test leads, soft case, users manual



Fluke. Keeping your world up and running.®

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