

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.

New

1000 V CAT III
600 V CAT II

**True
RMS**

CE

SP®
C US

N10140

TUV
SUD

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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • CAT IV 300 V, CAT III 600 V • 1000 µF
Old model: Fluke 334	
New model: Fluke 374	Includes all 334 features plus: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • CAT IV 300 V, CAT III 600 V • True-rms • 600 A ac • 6000 Ω • 1000 µF

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

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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