

TECHNICAL DATA

Fluke 376 FC True-RMS Clamp Meter with iFlex















Key features

- Measures AC/DC current with included iFlex current probe
- VFD low pass filter for accurate measurements of non-linear signals
- Remotely log, trend and monitor to pinpoint intermittent faults
- Inrush measurement to filter out noise and capture starting current

Product overview: Fluke 376 FC True-RMS Clamp Meter with iFlex

The Fluke 376 FC True-rms Clamp Meter with iFlex is the most advanced troubleshooting tool for industrial and commercial electricians. The 376 is part of the Fluke Connect family of wireless test tools that enable you to log, trend and monitor measurements while remaining safely away from the arc flash zone through Bluetooth connectivity.

Find the cause of difficult problems

The 376 FC clamp meter uses an integrated low-pass filter for accurate measurements of non-linear signals, such as adjustable speed drives, electronic ballasts and other non-linear loads. The clamp also uses proprietary inrush measurement technology to filter out noise and capture motor starting current exactly as the circuit protection sees it.

Measure:

- Voltage to 1000 V AC or DC
- Resistance to 60 k Ω with continuity detection
- Min, max, average, and inrush recording to capture variations automatically
- 500 mV DC measurement range to interface with other accessories
- 1000 μ F capacitance measurement

Work safely and conveniently

The 376 FC clamp carries a CAT III 1000 V, CAT IV 600 V safety rating, designed to offer you the highest possible protection in a test tool.

The included iFlex flexible current probe provides easier access to large conductors in tight spaces. The flexible probe:

- Expands the measurement range to 2500 A AC
- Allows frequency measurement to 500 Hz with body jaw and iFlex

Specifications: Fluke 376 FC True-RMS Clamp Meter with iFlex

General Specifications	
AC Current via Jaw	
Range	999.9 A
Resolution	0.1 A
Accuracy	2% ±5 digits (10 Hz to 100 Hz)
	2.5% ±5 digits (100-500 Hz)



Crest Factor (50 Hz/60 Hz)	3 @ 500 A
	2.5 @ 600 A
	Add 2% for C.F. >2
AC Current via Flexible Current Probe	
Range	2500 A
Resolution	0.1 A (🛛 600 A)
	1 A (🛛 2500 A)
Accuracy	3% ±5 digits (5 – 500 Hz)
Crest Factor (50/60Hz)	3.0 at 1100 A
	2.5 at 1400 A
	1.42 at 2500 A
	Add 2% for C.F. > 2
Position Sensitivity	

×

	i2500-10 Flex	i2500-18 Flex
A		
Distance from Optimum	0.5 in (12.7 mm)	1.4 in (35.6 mm)
Error	±0.5 %	±0.5 %
В		
Distance from Optimum	0.8 in (20.3 mm)	2.0 in (50.8 mm)
Error	±1.0 %	±1.0 %
С		
Distance from Optimum	1.4 in (35.6 mm)	2.5 in (63.5 mm)
Error	±2.0 %	±2.0 %

Measurement uncertainty assumes cealized primary conductor at optimum position, no exteal electrical or magnetic field, and within operating temperature range.

DC Current	
Range	999.9 A
Resolution	0.1 A
Accuracy	2% ±5 digits
AC Voltage	
Range	1000 V
Resolution	0.1 V (0600.0 V)
	1 V (01000 V)
Accuracy	1% ±5 digits (20 Hz to 500 Hz)
DC Voltage	

4 Fluke Corporation Fluke 376 FC True-RMS Clamp Meter with iFlex



Range	1000 V
Resolution	0.1 V (□600.0 V)
	1 V (01000 V)
Accuracy	1% ±5 digits
mV dc	
Range	500.0 mV
Resolution	0.1 mV
Accuracy	1% ±5 digits
Frequency via Jaw	
Range	5.0 Hz to 500.0 Hz
Resolution	0.1 Hz
Accuracy	0.5% ±5 digits
	5 Hz to 10 Hz, 010 A
Trigger level	10 Hz to 100 Hz, 🛛 5 A
	100 Hz to 500 Hz, 010 A
Frequency via Flexible Current Pro	be
Range	5.0 Hz to 500.0 Hz
Resolution	0.1 Hz
Accuracy	0.5% ±5 digits
	5 Hz to 20 Hz, 025 A
Trigger level	20 Hz to 100 Hz, 020 A
	100 Hz to 500 Hz, 025 A
Resistance	
Range	60 kΩ
	0.1 Ω (Π600 Ω)
Resolution	1 Ω (Π6000 Ω)
	10 Ω (Π60 kΩ)
Accuracy	1% ±5 digits
Capacitance	
Range	1000 μF
Desclution	0.1 μF (□ 100 μF)
Resolution	1 μ F (🛛 1000 μF)
Accuracy	1% ±4 digits
Mechanical Specifications	
Maximum voltage between any terminal and earth ground	1000 V



Baeries	2 AA, NEDA 15A, IEC LR6	
Operating temperature	-10 °C to +50 °C	
Storage temperature	-40 °C to +60 °C	
Operating humidity - on-condensing (< 10°C)	□90% RH (at 10 °C to 30 °C)	
	075% RH (at 30 °C to 40 °C)	
	045% RH (at 40 °C to 50 °C)	
Operating altitude	2000 m	
Storage altitude	12,000 m	
Size (L x W x H)	249 x 85 x 45 mm	
Weight	395 g	
Jaw opening	34 mm	
Flexible current probe diameter	7.5 mm	
Flexible current probe cable length (head to electronics connector)	1.8 m	
Safety	IEC 61010-1, Pollution Degree 2	
	IEC 61010-2-032: CAT III 1000 V / CAT IV 600 V	
	IEC 61010-2-033:CAT III 1000 V / CAT IV 600 V	
IP rating	IEC 60529: IP30, non-operating	
Radio Frequency Certification FCC ID	T68-FBLE IC:6627A-FBLE	
Electromagnetic Compatibility (EMC)		
	IEC 61326-1: Portable, Electromagnetic Environment, IEC 61326-2-2	
	CISPR 11: Group 1, Class A	
Inteational	Group 1: Equipment has intentionally generated and/or uses conductively- coupled radio frequency energy that is necessary for the inteal function of the equipment itself.	
	Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purpose. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.	
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)	
	Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.	
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.	
Temperature coefficients	Add 0.1 x specified accuracy for each degree C above 28 °C or below 18 °C	



Ordering information



Fluke 376 FC with 18-inch iFlex

Fluke 376 FC True-RMS Clamp Meter

Includes:

- Fluke 376 FC True-RMS Clamp Meter
- 18-inch iFlex® Flexible Current Probe
- TPAK magnetic hanging strap
- TL75 Test Leads
- Two AA batteries (Installed)
- Soft carrying case
- Coated instruction card
- Safety information sheet

Optional accessories	Description
Fluke TL223 SureGrip™ Electrical Test Lead Set	Includes 3 test lead accessories in an all-in-one set. Ideal starter kit for electrical applications.
Fluke AC285 SureGrip™ Alligator Clips	SureGrip™ accessories are designed to improve steadiness in slippery hands.
Fluke i2500-18 iFlex® Flexible Current Probes	The Fluke iFlex® flexible current probes expand the measurement range of the select Fluke meters to 2500 A AC while providing the ultimate measurement flexibility.
Fluke C37XT Protective EVA Hard Tool Case	Durable EVA foam case and divider to safely carry most multimeters





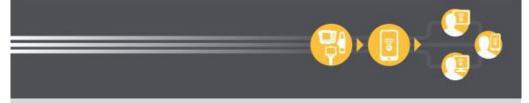
Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect™ system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive[™] video calls and emails.

Find out more at **flukeconnect.com**





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