TECHNICAL DATA

Fluke 370 FC Series True-rms Wireless AC/DC Clamp Meters



FLUKE CONNECT

LOG AND TREND MEASUREMENTS

Transmit results wirelessly via Fluke Connect Measurements app

WORK SAFELY

Capture measurements outside the arc flash zone with Bluetooth connectivity to your Apple or Android devices

LO-PASS FILTER

Integrated VFD low-pass filter (Fluke 376 FC and 375 FC) for accurate motor drive measurements

TRUE-RMS

True-rms voltage and current for accurate measurements on non-linear signals

WARRANTY

Three-year

The Fluke 370 FC Series (376 FC, 375 FC and 374 FC) offers advanced troubleshooting performance.

The iFlex™ flexible current probe allows easy connections to wires in tight spaces. In addition, all three clamps are now part of the Fluke Connect™ family of wireless test tools. Now you can:

- Log and trend measurements to pinpoint intermittent faults
- Transmit results wirelessly via Fluke Connect Measurements app
- Create and send reports right from the field
- Capture measurements outside the arc flash zone with Bluetooth connectivity to your Apple or Android devices

Product highlights

- Connect your meter to your smartphone using Fluke Connect Measurements app to increase the troubleshooting power of your clamp
- Read measurements on your phone at a safe distance, wearing less PPE while your meter takes all the risks
- Record results directly to your phone and the Fluke Cloud™
- Capture intermittent faults while performing other tasks using the logging capabilities of the Fluke 376 FC and 375 FC
- Create and share reports from the field via email, or converse in real time with ShareLive™ video calls
- iFlex flexible current probe expands the measurement range to 2500 A ac; provides access to large conductors in tight spaces (included with 376 FC; compatible with 375 FC and 374 FC)
- TPAK magnetic hanging strap (included with 376 FC; compatible with 375 FC and 374 FC) allows you to conveniently hang the meter while using the probes
- Integrated VFD low pass filter (Fluke 376 FC and 375 FC) for accurate motor drive measurements
- Proprietary in-rush measurement technology to filter out noise and capture motor starting current exactly as the circuit protection sees it
- CAT IV 600 V, CAT III 1000 V safety rating
- Three-year warranty
- Soft carrying case

Measurement capability

- 1000 A ac and dc current measurement (376 FC); 600 A ac and dc (375 FC and 364 FC)
- 2500 A ac current measurement with iFlex® flexible current probe
- 1000 V ac and dc voltage measurement
- True-rms voltage and current for accurate measurements on non-linear signals
- Frequency measurement to 500 Hz with body jaw and iFlex (376 FC and 375 FC)
- Resistance measurement to 60 kΩ (376 FC and 375 FC) or 6000 Ω (374 FC), with continuity detection
- Min, max, average and in-rush recording to capture variations automatically
- 500 mV dc measurement range to interface with other accessories (376 FC and 375 FC)
- 1000 µF capacitance measurement

Comparison chart

	Fluke 376 FC	Fluke 375 FC	Fluke 374 FC
CAT rating	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V
A ac range	999.9 A with clamp jaws 2500 A with iFlex flexible current clamp	600 A with clamp jaws 2500 A with optional iFlex flexible current clamp	600 A with clamp jaws 2500 A with optional iFlex flexible current clamp
A dc range	999.9 A	600 A	600A
Best resolution	0.1 A	0.1 A	0.1 A
V ac range	1000 V	1000 V	1000 V
V dc range	1000 V	1000 V	1000 V
mV dc range	500 mV	500 mV	
Ohms range	60.00 kΩ	60.00 kΩ	6000 Ω
Frequency	5-500.0 Hz	5-500.0 Hz	
Capacitance	1 µF-1,000 µF	1 µF-1,000 µF	1 µ-1,000 µF
Auto shutoff	●	●	●
True RMS	●	●	●
Display hold	●	●	●
Inrush measurements	●	●	●
Backlight	●	●	●
DC zero	●	●	●
Min/max	●	●	●
VFD low pass filter	●	●	-
Logging	●	●	-
iFlex flexible current clamp	Included	Optional	Optional
Fluke Connect compatible	●	●	●

Specifications

General specifications	
Maximum voltage (between any terminal and earth ground)	1000 V
Battery type	2 AA alkaline batteries, IEC LR6
Temperature	
Operating	–10 °C to +50 °C (14 °F to + 122 °F)
Storage	–40 °C to +60 °C (–40 °F to + 140 °F)
Operating humidity	Non condensing (< 10 °C (50 °F)), ≤90 % RH (at 10 °C to 30 °C (50 °F to 86 °F)), ≤75 % RH (at 30 °C to 40 °C (86 °F to 104 °F)), ≤45 % RH (at 40 °C to 50 °C (104 °F to 122 °F))
Altitude	
Operating	3000 m (9842 ft)
Storage	12,000 m (39,370 ft)
Dimensions	24.9 cm (9.8 in) x 8.5 cm (3.3 in) x 4.5 cm (1.7 in)
Weight	395 g (13.9 oz)
Jaw opening	34 mm (1.3 in)
Flexible current probe diameter	7.5 mm (.29 in)
Flexible current probe cable length (head to electronics connector)	1.8 m (70.8 in)
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)	International: IEC 61326–1: Portable, Electromagnetic Environment, IEC 61326–2–2 CISPR 11: Group 1, Class A Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) USA (FCC): 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.
Temperature coefficients	Add 0.1 × specified accuracy for each degree C above 28 °C or below 18 °C

Specifications (continued)

Function	Range	Resolution	Accuracy	Crest factor	Trigger level
AC current via jaw	374 FC and 375 FC: 600.0 A 376 FC: 999.9 A	0.1 A	2 % ±5 digits (10 Hz to 100 Hz)	3 at 500 A (375 FC and 376 FC only) 2.5 at 600 A 1.42 at 1000 A (376 FC only) Add 2 % for C.F. >2	-
AC current via flexible current probe	2500 A	374 FC and 375 FC: 0.1 A (≤ 600.0 A), 1 A (≤ 2500 A) 376 FC: 0.1 A (≤ 999.9 A), 1 A (≤ 2500 A)	3 % ±5 digits (5 Hz to 500 Hz)	3.0 at 1100 A (375 FC and 376 FC only) 2.5 at 1400 A 1.42 at 2500 A Add 2 % for C.F. >2	-
DC current	374 FC and 375 FC: 600.0 A 376 FC: 999.9 A	0.1 A	2 % ±5 digits	-	-
AC voltage	1000 V	0.1 V (≤600.0 V) 1 V (≤1000 V)	1 % ±5 digits (20 Hz to 500 Hz)	-	-
DC voltage	1000 V	0.1 V (≤600.0 V) 1 V (≤1000 V)	1 % ±5 digits	-	-
mV dc	500.0 mV	0.1 mV	1 % ±5 digits	-	-
Frequency via jaw	375 FC and 376 FC: 5.0 Hz to 500.0 Hz	0.1 Hz	0.5 % ±5 digits	-	5 Hz to 10 Hz, ≥10 A 10 Hz to 100 Hz, ≥5 A 100 Hz to 500 Hz, ≥10 A
Frequency via flexible current probe	375 FC and 376 FC: 5.0 Hz to 500.0 Hz	0.1 Hz	0.5 % ±5 digits	-	5 Hz to 20 Hz, ≥25 A 20 Hz to 100 Hz, ≥20 A 100 Hz to 500 Hz, ≥25 A
Resistance	374 FC: 6,000 Ω 375 FC and 376 FC: 60 kΩ	374 FC: 0.1 Ω (≤600 Ω), 1 Ω (≤6000 Ω) 375 FC and 376 FC: 0.1 Ω (≤600 Ω), 1 Ω (≤6000 Ω), 10 Ω (≤60 kΩ)	1 % ±5 digits	-	-
Capacitance	1000 µF	0.1 µF (≤100 µF), 1 µ F (≤1000 µF)	1 % ±4 digits	-	-

Ordering information

374 FC 600A AC/DC True-rms Wireless Clamp Meter
375 FC 600A AC/DC True-rms Wireless Clamp Meter
376 FC 1000A AC/DC True-rms Wireless Clamp Meter with iFlex

Included

18-inch iFlex Flexible Current Probe (376 FC only)
TPAK Magnetic Hanging Strap (376 FC only)
Soft Carrying Case
TL75 Test Leads
Two AA Alkaline Batteries
Coated Instruction Card
Safety Information Sheet

Optional accessories

TPAK Magnetic Hanging Strap (included with 376 FC)
18-inch iFlex Flexible Current Probe (included with 376 FC)

Visit www.fluke.com to get complete details on these products or ask your local Fluke sales representative.



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.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Access baseline, historical and current measurements by asset.
- Share your measurement data using ShareLive™ video calls and emails.
- The Ti300+ infrared camera is part of a growing system of connected test tools and equipment maintenance software. Visit the Fluke website to learn more about the Fluke Connect system.

Find out more at **fluke.com**

Download on the App Store

ANDROID APP ON Google play



All trademarks are the property of their respective owners. WiFi or cellular service required to share data. Smartphone, wireless service and data plan not included with purchase. First 5GB of storage is free.

Smartphone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.

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Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

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For more information call:
In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0)40 267 5100 or
Fax +31 (0)40 267 5222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: http://www.fluke.com

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