

## Fluke 370 FC Series true-rms wireless AC/DC clamp meters

### ***Fluke 376 FC & 375 FC logging wireless AC/DC clamp meters, Fluke 374 FC wireless AC/DC clamp meter***

The Fluke 370 FC Series (376 FC, 375 FC, and 374 FC) offers advanced troubleshooting performance. The iFlex<sup>®</sup> flexible current probe allows for easy measurement around 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, and pinpoint intermittent faults
- Capture measurements outside the arc flash zone with Bluetooth connectivity to your Apple or Android devices
- Transmit results wirelessly via Fluke Connect<sup>®</sup> Measurements app
- Create and send reports right from the field
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### ***Product highlights***

- Connect your meter to your smartphone with Fluke Connect Measurements
- Read measurements on your phone at a safe distance, wearing less Personal Protective Equipment (PPE) while your meter takes all the risks
- Record results directly to your phone and the Cloud
- Capture intermittent faults while performing other tasks using the logging capabilities of the Fluke 376 FC and Fluke 375 FC
- Create and share reports from the field via email, or converse in real-time with ShareLive<sup>™</sup> 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 k $\Omega$  (375 FC and 376 FC) or 6000  $\Omega$  (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  $\mu$ F capacitance measurement

### **Product Comparison**

| <b>Product Comparison</b>     | <b>376 FC</b>  | <b>375 FC</b>   | <b>374 FC</b>   |
|-------------------------------|--|---|---|
| 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<br>2500 A with iFlex® flexible current clamp | 600 A with clamp jaws<br>2500 A with optional iFlex® flexible current clamp | 600 A with clamp jaws<br>2500 A with optional iFlex® flexible current clamp |
| A DC Range                    | 999.9 A  | 600 A   | 600 A   |
| 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 k $\Omega$   | 60.00 k $\Omega$  | 6,000 $\Omega$  |
| Frequency                     | 5 - 500.0 Hz   | 5 - 500.0 Hz  |   |
| Capacitance                   | 1 $\mu$ F - 1,000 $\mu$ F  | 1 $\mu$ F - 1,000 $\mu$ F   | 1 $\mu$ F - 1,000 $\mu$ F   |
| Auto Shutoff                  | Yes  | Yes   | Yes   |
| True RMS                      | Yes  | Yes   | Yes   |
| Display Hold                  | Yes  | Yes   | Yes   |
| Inrush Measurements           | Yes  | Yes   | Yes   |
| Backlight                     | Yes  | Yes   | Yes   |
| DC Zero                       | Yes  | Yes   | Yes   |
| Min/Max                       | Yes  | Yes   | Yes   |
| Fluke Connect Compatible      | Yes  | Yes   | Yes   |
| VFD Low-Pass Filter           | Yes  | Yes   |   |
| Logging                       | Yes  | Yes   |   |
| iFlex® flexible current clamp | Included   | Optional  | Optional  |



**Specifications**

|   |   |
|---|---|
| Maximum voltage between any Terminal and Earth Ground.....                | 1000 V  |
| Batteries .....   | 2 AA, NEDA 15A, IEC LR6   |
| Operating Temperature .....   | -10 °C to +50 °C  |
| Storage Temperature .....   | -40 °C to +60 °C  |
| Operating Humidity .....  | Non condensing (< 10°C)   |
|   | ≤90 % RH (at 10 °C to 30 °C)  |
|   | ≤75 % RH (at 30 °C to 40 °C)  |
|   | ≤45 % RH (at 40 °C to 50 °C)  |
| Operating Altitude .....  | 3000 m  |
| Storage Altitude .....  | 12,000 m  |
| Size (L x W x H) .....  | 249 mm x 85 mm 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)                                       |   |
| 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 x specified accuracy for each degree C above 28 °C or below 18 °C

**AC Current via Jaw**

Range

374 FC and 375 FC .....600.0 A

376 FC .....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 (375 FC and 376 FC only)

..... 2.5 @ 600 A

..... 1.42 @ 1000 A (376 FC only)

..... Add 2 % for C.F. >2

**AC Current via Flexible Current Probe**

Range .....2500 A

Resolution

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)

Accuracy .....3 % ±5 digits (5 to 500 Hz)

Crest Factor (50 Hz/60 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**

Range

374 FC and 375 FC .....600.0 A

376 FC .....999.9 A

Resolution .....0.1 A

Accuracy ..... 2 % ±5 digits

**AC Voltage**

Range ..... 1000 V  
Resolution ..... 0.1 V ( $\leq 600.0$  V)  
..... 1 V ( $\leq 1000$  V)  
Accuracy ..... 1.5 %  $\pm 5$  digits (20 Hz to 500 Hz)

**DC Voltage**

Range ..... 1000 V  
Resolution ..... 0.1 V ( $\leq 600.0$  V)  
..... 1 V ( $\leq 1000$  V)  
Accuracy ..... 1 %  $\pm 5$  digits

**mV dc**

Range, 375 FC and 376 FC ..... 500.0 mV  
Resolution ..... 0.1 mV  
Accuracy ..... 1 %  $\pm 5$  digits

**Frequency via Jaw**

Range, 375 FC and 376 FC ..... 5.0 Hz to 500.0 Hz  
Resolution ..... 0.1 Hz  
Accuracy ..... 0.5 %  $\pm 5$  digits  
Trigger Level ..... 5 Hz to 10 Hz,  $\geq 10$  A  
..... 10 Hz to 100 Hz,  $\geq 5$  A  
..... 100 Hz to 500 Hz,  $\geq 10$  A

**Frequency via Flexible Current Probe**

Range, 375 FC and 376 FC ..... 5.0 Hz to 500.0 Hz  
Resolution ..... 0.1 Hz  
Accuracy ..... 0.5 %  $\pm 5$  digits  
Trigger Level ..... 5 Hz to 20 Hz,  $\geq 25$  A  
..... 20 Hz to 100 Hz,  $\geq 20$  A  
..... 100 Hz to 500 Hz,  $\geq 25$  A

**Resistance**

Range  
374 FC ..... 6000  $\Omega$   
375 FC and 376 FC ..... 60 k $\Omega$   
Resolution  
374 FC ..... 0.1  $\Omega$  ( $\leq 600$   $\Omega$ )

|                         |                  |
|-------------------------|------------------|
| .....                   | 1 Ω (≤6000 Ω)    |
| 375 FC and 376 FC ..... | 0.1 Ω (≤600 Ω)   |
| .....                   | 1 Ω (≤6000 Ω)    |
| .....                   | 10 Ω (≤60 kΩ)    |
| Accuracy .....          | 1 % ±5 digits    |
| <b>Capacitance</b>      |                  |
| Range .....             | 1000 μF          |
| Resolution .....        | 0.1 μF (≤100 μF) |
| .....                   | 1 μF (≤1000 μF)  |
| Accuracy .....          | 1 % ±4 digits    |

**Ordering information**

|                    |  |
|--------------------|--|
| FLUKE-374 FC ..... | 600A AC/DC True-rms wireless clamp meter           |
| FLUKE-375 FC ..... | 600A AC/DC True-rms wireless clamp meter           |
| FLUKE-376 FC ..... | 1000A AC/DC True-rms wireless clamp meter w/ iFlex |

**Included**

- Clamp Meter
- 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
- User Manual
- Safety Information Sheet

**Optional accessories**

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

**Multiply your resources with Fluke Connect® wireless capabilities<sup>1</sup>**

With the Fluke Connect mobile app you can transmit images and measurements from Fluke tools in real-time to authorized smartphones that have the Fluke Connect mobile app. You can also share results instantly with team members to enhance collaboration and resolve issues faster.

With Fluke ConnectR Assets, you can also associate images to assets, see your images and other measurements by asset in one place, and generate reports that include other measurement types. See [www.flukeconnect.com](http://www.flukeconnect.com) for more information.

<sup>1</sup>Within your provider's wireless service area; Fluke ConnectR and Fluke ConnectR Assets are not available in all countries. Smart phone not included with purchase. All trademarks are the property of their respective owners