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

The new 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)

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

All trademarks are the property of their respective owners.
• 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

<table>
<thead>
<tr>
<th></th>
<th>Fluke 376 FC</th>
<th>Fluke 375 FC</th>
<th>Fluke 374 FC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAT rating</strong></td>
<td>CAT III 1000 V, CAT IV 600 V</td>
<td>CAT III 1000 V, CAT IV 600 V</td>
<td>CAT III 1000 V, CAT IV 600 V</td>
</tr>
<tr>
<td><strong>A ac range</strong></td>
<td>999.9 A with clamp jaws 2500 A with iFlex® flexible current clamp</td>
<td>600 A with clamp jaws 2500 A with optional iFlex® flexible current clamp</td>
<td>600 A with clamp jaws 2500 A with optional iFlex® flexible current clamp</td>
</tr>
<tr>
<td><strong>A dc range</strong></td>
<td>999.9 A</td>
<td>600 A</td>
<td>600 A</td>
</tr>
<tr>
<td><strong>Best resolution</strong></td>
<td>0.1 A</td>
<td>0.1 A</td>
<td>0.1 A</td>
</tr>
<tr>
<td><strong>V ac range</strong></td>
<td>1000 V</td>
<td>1000 V</td>
<td>1000 V</td>
</tr>
<tr>
<td><strong>V dc range</strong></td>
<td>1000 V</td>
<td>1000 V</td>
<td>1000 V</td>
</tr>
<tr>
<td><strong>mV dc range</strong></td>
<td>500 mV</td>
<td>500 mV</td>
<td>500 mV</td>
</tr>
<tr>
<td><strong>Ohms range</strong></td>
<td>60.00 kΩ</td>
<td>60.00 kΩ</td>
<td>6,000 Ω</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>5-500.0 Hz</td>
<td>5-500.0 Hz</td>
<td>5-500.0 Hz</td>
</tr>
<tr>
<td><strong>Capacitance</strong></td>
<td>1 μF-1,000 μF</td>
<td>1 μF-1,000 μF</td>
<td>1 μF-1,000 μF</td>
</tr>
<tr>
<td><strong>Auto shutoff</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>True RMS</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Display hold</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Inrush measurements</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Backlight</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>DC zero</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Min/max</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>VFD low pass filter</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Logging</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>iFlex® flexible current clamp</strong></td>
<td>Included</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Fluke Connect® compatible</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

### Specifications

#### General specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>1000 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum voltage between any terminal and earth ground</td>
<td>1000 V</td>
</tr>
<tr>
<td>Battery type</td>
<td>2 AA alkaline batteries, NEDA 15A, IEC LR6</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating: -10 °C to +50 °C (14 °F to + 122 °F)</td>
</tr>
<tr>
<td></td>
<td>Storage: -40 °C to +60 °C (-40 °F to + 140 °F)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>Non condensing (&lt; 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)]</td>
</tr>
<tr>
<td>Altitude</td>
<td>Operating: 3,000 m (9,842 ft)</td>
</tr>
<tr>
<td></td>
<td>Storage: 12,000 m (39,370 ft)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>24.9 cm (9.8 in) x 8.5 cm (3.3 in) x 4.5 cm (1.7 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>395 g (13.9 oz)</td>
</tr>
<tr>
<td>Jaw opening</td>
<td>34 mm (1.3 in)</td>
</tr>
<tr>
<td>Flexible current probe diameter</td>
<td>7.5 mm (.29 in)</td>
</tr>
<tr>
<td>Flexible current probe cable length</td>
<td>1.8 m (70.8 in)</td>
</tr>
<tr>
<td>Safety</td>
<td>IEC 60101-1, Pollution Degree 2</td>
</tr>
<tr>
<td></td>
<td>IEC 61010-2-032: CAT III 1000 V / CAT IV 600 V</td>
</tr>
<tr>
<td></td>
<td>IEC 61010-2-033: CAT III 1000 V / CAT IV 600 V</td>
</tr>
<tr>
<td>IP rating</td>
<td>IEC 60529: IP30, non-operating</td>
</tr>
<tr>
<td>Radio frequency certification</td>
<td>FCC ID:T68-FBLE IC-6627A-FBLE</td>
</tr>
</tbody>
</table>
### General specifications continued

**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

#### 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 % ±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

**Frequency via flexible current probe**
- 375 FC and 376 FC: 5.0 Hz to 500.0 Hz
- 0.1 Hz
- 0.5 % ±5 digits

**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 μF (≤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)

Set up and sustain preventive maintenance practices with ease to help you oversee your complex world with the Fluke Connect® system of software and wireless test tools.

- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Save measurements to the Fluke Cloud™ and associate with an asset so your team can consult both historical and current measurements from one location.
- Collaborate with ease by sharing your data with others with ShareLive™ video calls and emails.
- Wireless one-step measurement transfer with AutoRecord™ measurements removes the need for clipboards and paperwork.
- Consult summary views of all assets over time for easy identification of correlated or periodic failures for easier prioritization of maintenance work.
- Generate reports with multiple measurement types to provide status or work recommendations.

Find out more at flukeconnect.com

Download the app at:

Smartphone is not included with purchase.