

## TECHNICAL DATA

# Fluke 368/368 FC and 369/369 FC Leakage Current Clamp Meters



### FLUKE CONNECT COMPATIBLE (368 FC, 369 FC ONLY)

Download the free Fluke Connect® app from iTunes or Google Play to enable graphs for trending

### LARGE JAW

61 mm jaw (369 FC, 369) for use with large cables

### WORKLIGHT, BACKLIGHT

Forward-facing worklight, plus backlit display for use in dark wiring cabinets

### SPECIALIZED CURRENT MEASUREMENTS

Highest resolution of 1  $\mu$ A, measure up to 60 A, true-rms for accurate measurements of complex signals

## Measure leakage current to track small problems, avoid large problems

The Fluke 360 Series of true-rms leakage current clamp meters help users detect, document, record and compare leakage current readings over time as a means of preventing unplanned downtime, and identifying intermittent GFCI and RCD trips, without taking equipment off line.

The Fluke 368 FC and 369 FC have large diameter jaws (40 mm for the 368 FC, 61 mm for the 369 FC) for work with larger conductors. The clamp's jaw is fully shielded to accurately capture very small leakage signals, and to minimize external electromagnetic interference.

The 368 FC and 369 FC also offer wireless data connectivity via Fluke Connect. As part of Fluke Connect—the industry's largest system of software and more than 40 wireless test tools—the 368 FC and 369 FC allow you to track changes in leakage current over time, helping to identify potential problems before they turn into major failures.





## Product overview

- True-rms measurements for accuracy when measuring complex, non-sinusoidal waveforms
- 61 mm large jaw design (369/369 FC), 40 mm jaw (368/368 FC)
- Highest resolution of 1  $\mu$ A, measure up to 60 A
- Selectable filter function eliminates unwanted noise
- Max/Min/Average readings and hold function
- Forward-facing LED worklight for use in dark wiring cabinets
- Backlit display; auto backlight off and auto power off for extended battery life
- CAT III 600 V safety rating

## Technical specifications

|                                                                                    |                                                                                                             |                                    |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------|
| Measurement function                                                               | Alternating current                                                                                         |                                    |
| AC ampere range                                                                    | 3 mA, 30 mA, 300 mA, 3 A, 30 A, 60 A                                                                        |                                    |
| Range selection                                                                    | mA A: manual selection<br>3 mA, 30 mA, 300 mA: automatic selection<br>3 A, 30 A, 60 A: automatic selection  |                                    |
| Range/Resolution                                                                   | 3 mA <sup>[1]</sup> /0.001 mA<br>30 mA/0.01 mA<br>300 mA/0.1 mA<br>3 A/0.001 A<br>30 A/0.01 A<br>60 A/0.1 A |                                    |
| Accuracy – filter activated (40 to 70 Hz), filter off (40 to 1 kHz) <sup>[2]</sup> | 368/368 FC<br>3 mA – 30 A<br>60 A                                                                           | 1 % + 5 digits<br>2 % + 5 digits   |
| Accuracy – filter activated (40 to 70 Hz), filter off (40 to 1 kHz) <sup>[2]</sup> | 369/369 FC<br>3 mA to 30 A<br>60 A                                                                          | 1.5 % + 5 digits<br>2 % + 5 digits |
| Frequency                                                                          | 40 Hz to 1 kHz                                                                                              |                                    |
| Crest factor                                                                       | 3                                                                                                           |                                    |

After calibration accuracy is valid for one year. Accuracy is expressed as  $\pm$  (% of reading + digits). Reference conditions  $23 \pm 5$  °C and a maximum relative humidity of 80 %.

<sup>[1]</sup>The minimum value is 10  $\mu$ A rms. <sup>[2]</sup>Outside of the TC/°C 18 °C to 28 °C, 0.02 + 1

| Physical                                |                                                                                                                                                                                                                                                  |                         |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Display (LCD)                           | Digital readout: 3300 count                                                                                                                                                                                                                      |                         |
| Display refresh rate                    | 4 times/sec                                                                                                                                                                                                                                      |                         |
| Maximum conductor diameter              | 368/368 FC                                                                                                                                                                                                                                       | 40 mm                   |
|                                         | 369/369 FC                                                                                                                                                                                                                                       | 61 mm                   |
| Size (wxhxd)                            | 368/368 FC                                                                                                                                                                                                                                       | 101 mm x 234 mm x 46 mm |
|                                         | 369/369 FC                                                                                                                                                                                                                                       | 116 mm x 257 mm x 46 mm |
| Weight                                  | 368/368 FC                                                                                                                                                                                                                                       | 500 g                   |
|                                         | 369/369 FC                                                                                                                                                                                                                                       | 600 g                   |
| Battery                                 | 2 AA, IEC LR6, NEDA 15A, alkaline                                                                                                                                                                                                                |                         |
| Battery life                            | Expected battery life, without using backlight and spotlight, is more than 150 hours                                                                                                                                                             |                         |
| Automatic shut-down                     | Meter automatically shuts down after 15 minutes of inactivity.                                                                                                                                                                                   |                         |
| Safety and environmental specifications |                                                                                                                                                                                                                                                  |                         |
| General safety                          | IEC 61010-1: Pollution Level 2                                                                                                                                                                                                                   |                         |
| Measurement safety                      | IEC 61010-2-032: CAT III 600 V / CAT IV 300 V                                                                                                                                                                                                    |                         |
| Operating temperature                   | -10 °C to +50 °C                                                                                                                                                                                                                                 |                         |
| Storage temperature                     | -40 °C to +60 °C                                                                                                                                                                                                                                 |                         |
| Operating humidity                      | Non-condensing (<10 °C)                                                                                                                                                                                                                          |                         |
|                                         | 90 % relative humidity (10 °C to 30 °C)                                                                                                                                                                                                          |                         |
|                                         | 75 % relative humidity (30 °C to 40 °C)                                                                                                                                                                                                          |                         |
|                                         | 45 % relative humidity (40 °C to 50 °C)                                                                                                                                                                                                          |                         |
| Protection class                        | IEC 60529: IP30 (jaw closed)                                                                                                                                                                                                                     |                         |
| Operating altitude                      | 2000 m                                                                                                                                                                                                                                           |                         |
| Storage altitude                        | 12000 m                                                                                                                                                                                                                                          |                         |
| Current sensor action category          | IEC 61557-13: Class 2, ≤ 30 A/m                                                                                                                                                                                                                  |                         |
| Electromagnetic compatibility (EMC)     |                                                                                                                                                                                                                                                  |                         |
| International                           |                                                                                                                                                                                                                                                  |                         |
| IEC 61326-1                             | Industrial Electromagnetic Environment                                                                                                                                                                                                           |                         |
| CISPR 11                                | Group 1 Class B                                                                                                                                                                                                                                  |                         |
| Group 1                                 | Generated inside the equipment and / or use radio frequency energy associated with conducting the energy for the device's own internal functions is essential.                                                                                   |                         |
| Class B                                 | Equipment for home appliances and residential buildings directly connected to a low voltage power supply network equipment. When this device is connected to a test object, it may exceed the emission levels produced by CISPR 11 requirements. |                         |
|                                         | Korea (KCC): A type of equipment (radio and communication equipment industry)                                                                                                                                                                    |                         |
| Class A                                 | This product meets the requirements of industrial electromagnetic equipment, vendors or users should be aware of this. This device is intended for use in a commercial environment, instead of the home environment.                             |                         |
|                                         | USA (FCC): 47 CFR 15 B Subpart. In accordance with section 15.103 provides that the products are considered tax-free device.                                                                                                                     |                         |



### 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.
- The 360 Series is part of a growing system of connected test tools and equipment maintenance software. Visit the website to learn more about the Fluke Connect® system.

Find out more at [flukeconnect.com](http://flukeconnect.com)



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 5 GB of storage is free. Phone support details can be viewed at [fluke.com/phones](http://fluke.com/phones).

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

### Ordering information

**FLUKE-368** Leakage Clamp, 40 mm

**FLUKE-369** Leakage Clamp, 61 mm

**FLUKE-368 FC** Leakage Clamp, 40 mm

**FLUKE-369 FC** Leakage Clamp, 61 mm

#### Included

Leakage clamp meter, soft case, manual, batteries: 2 AA



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