

TECHNICAL DATA

Fluke i3000s Flex-36 AC Current Clamp, 915 mm (36 in.)



Key features

- Three ranges
 - 30 A
 - 300 A
 - 3000 A, 1, 10 or 100 mV/A output
- Ideal for current measurement on thick and hard to reach conductors without breaking the circuit
- Maximum conductor diameter 178 mm (7 in.)
- CAT III 600 V safety rating

Also available in pack of 4 for use in Power Quality Analyzers. [Click here](#) for more info.

Product overview: Fluke i3000s Flex-36 AC Current Clamp, 915 mm (36 in.)

The i3000s Flex is an ac current clamp utilizing the Rogowski principle. It can be used to measure currents up to 3000 A when used in conjunction with oscilloscopes, recorders or data loggers. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas.

Specifications: Fluke i3000s Flex-36 AC Current Clamp, 915 mm (36 in.)

| Electrical Specification | |
|------------------------------------|---|
| Current ranges | 30 A |
| | 300 A |
| | 3000 A |
| | AC rms |
| Output sensitivity (AC-coupled) | 100 mV |
| | 10 mV |
| | 1mV per A |
| Load impedance | 100 kΩ minimum |
| Accuracy | at +25°C: ±1% of range (45 Hz to 65 Hz) |
| Linearity | 10% to 100% of range: ±0.2% of reading |
| Noise | 8 mV AC rms (30 A) |
| | 2 mV AC rms (300 A, 3000 A) |
| Frequency range | 10 Hz to 50 kHz (-3 dB) |
| Phase error | < ±1° (45 Hz to 65 Hz) |
| | ±10° (at 20 kHz) |
| Position sensitivity | with cable > 25 mm from the coupling: ±2% of range |
| External field | with cable > 200 mm from the head: ±1% of range |
| Power supply | 2 x AA/MN 1500/LR6 Alkaline, 400 hours, low battery indicator |
| Temperature coefficient | ±0.08% of reading per °C |
| Working voltage | see Safety standards section: 600 V AC rms or DC |
| General Specifications | |
| Head circumference | 915 mm (36 in.) |
| Head cable diameter | 14.3 mm (0.56 in) |
| Head bend radius | 38.1 mm (1.5 in) |
| Cable length (head to electronics) | 2 m (6.56 ft) |
| Output connection | 0.5 m cable terminated with safety BNC connector. Supplied with 4mm safety plug adapter |
| Operating temperature range | -20°C to +90°C (-4°F to 190°F) (head) |
| | -20°C to +85°C (-4°F to 185°F) (electronics) |
| Storage temperature range | -40°C to +105°C (-40°F to 221°F) (head) |
| | -20°C to +85°C (-4°F to 185°F) (electronics) |
| Operating humidity | 15% to 85% (non-condensing) |

| | |
|--------------------------------------|---|
| Weight | 180 g (0.396 lb) (head) |
| | 190 g (0.419 lb) (electronics) |
| Safety standards | BS EN 61010-1: 2001 |
| | BS EN 61010-2-032: 2002 |
| | BS EN 61010-031: 2002 |
| | 600 Vrms, Category III, Pollution Degree 2 |
| | Use of the probe on uninsulated conductors is limited to 600 V AC rms or DC and frequencies below 1 kHz |
| EMC standards | EN 61326: 1998 +A1, A2, and A3 |
| Head cable length (double insulated) | 610 mm or 914 mm, depending on model |

Ordering information



Fluke i3000s Flex 36

AC Current Clamp, 915 mm (36 in.)

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