**Fluke i3000s Flex**

**AC Current Clamp**

### Technical Data

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.

### Electrical specifications

- **Current ranges:** 30 A, 300 A, 3000 A ac rms
- **Output sensitivity (ac-coupled):** 100 mV, 10 mV, 1 mV 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 cable length (double insulated):**
  - 610 mm (24 in) i3000s Flex-24
  - 915 mm (36 in) i3000s Flex-36
- **Head cable diameter:** 14.3 mm
- **Head bend radius:** 38.1 mm
- **Cable length (head to electronics):** 2 meters
- **Output connection:** 0.5 m cable terminated with safety BNC connector. Supplied with BNC to Banana 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, & A3

Ordering information
i3000s FLEX-24 AC Current Probe, 24-inch circumference
i3000s FLEX-36 AC Current Probe, 36-inch circumference
i3000 FLEX-4PK, AC Current Probe, 4-pack of i3000s FLEX-24

Optional Accessories
FLEX PSU-EU Power supply unit for Europe
FLEX PSU-UK Power supply unit for the United Kingdom

Note: Power supply units only available for Europe and the United Kingdom.

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