

Rua Rodrigues Barbosa, 72 - Tatuapé - São Paulo - SP - CEP: 03334-040 Fones: (11) 2843-4418 - (11) 3713-3866 - (11) 7726-4306 Email: contato@powertronics.com.br Site: www.powertronics.com.br



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 k Ω minimum Accuracy (at +25 °C): \pm 1 % of range (45 Hz to 65 Hz) Linearity (10 % to 100 % of range): \pm 0.2 % of reading

Noise: 8 mV ac rms (30 A), 2 mV ac rms (300 A, 3000 A)

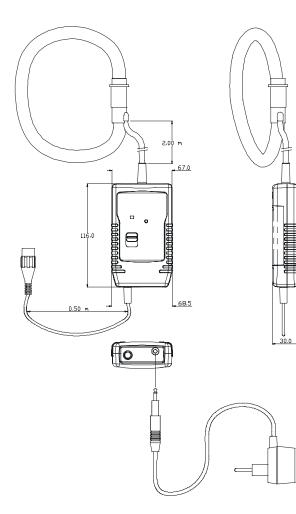
Frequency range: 10 Hz to 50 kHz (-3 dB) Phase error: $< \pm$ 1° (45 Hz to 65 Hz), \pm 10° (at 20 kHz)

Position sensitivity (with cable > 25 mm from the coupling): $\pm 2 \%$ of range External field (with cable > 200 mm from the head): $\pm 1 \%$ 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 acrms or dc and frequencies below 1 kHz.

EMC Standards EN 61326: 1998 +A1, A2, & A3

Ordering information

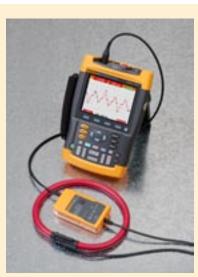
i3000s FLEX-24 AC Current Probe, 24-inch circumference i3000s FLEX-36 AC Current Probe, 36-inch circumference i3000 FLEX-4PK, AC Current Probe, 4-pack of i3000s FLEX-24

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.



i3000s Flex connected to a Fluke 434 Power Quality Analyzer (The i430 FLEX-4PK can be used with the Fluke 434 and 435, without the need for the control box).



i3000s Flex connected to a Fluke 199C ScopeMeter.

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Fluke Corporation PO Box 9090, Everett, WA USA 98206 Fluke Europe B.V. PO Box 1186, 5602 BD

Eindhoven, The Netherlands For more information call: In the U.S.A. (800) 443-5853 or

In the 0.5.A. (600) 445-6555 of Fax (425) 446-5116 In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222 In Canada (800) 36-FLUKE or Fax (905) 890-6866 From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116 Web access: http://www.fluke.com

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