

Fluke i2000 Flex AC Current Clamp

Technical Data



The i2000 is an ac current probe Utilizing the Rogowski principle. It can be used to measure currents up to 2000 A when used in conjunction with multimeters, recorders or data loggers. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas.

Electrical specifications

Current ranges: 20 A, 200 A, 2000 A ACRMS
Output sensitivity (ac-coupled): 100 mV, 10 mV, 1 mV per A

Load impedance: $100 \text{ k}\Omega$ 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,

Frequency range: 10 Hz to 20 kHz (-3 dB) Phase error: $<\pm$ 1 $^{\circ}$ (45 Hz to 65 Hz), : \pm 10 $^{\circ}$

(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,

200 hours, low battery indicator

Temperature coefficient: \pm 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

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: BNC with BNC to Banana

adapter included

Operating temperature range: 0 $^{\circ}$ C to +70 $^{\circ}$ C

(32 °F to 158 °F) (head and electronics)



Storage temperature range: -40 °C to +105 °C (-40 °F to 221 °F) (head), -20 °C to +85 °C (-4 °F to **EN 61326:** 1998 +A1, A2, & A3

185 °F) (electronics)

Operating humidity: 15 % to 85 %

(non-condensing)

Weight: 180 g (6.34 oz) (head), 190 g (6.70 oz)

(electronics)

Safety standards EN 61010-1: 2001 **EN 61010-2-032:** 2002 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.

Ordering information i2000 Flex AC Current Clamp



i2000 Flex connected to a Fluke 87V Digital Multimeter.

EMC Standards

