

Fluke i30 AC/DC Current Clamp

Technical Data



The i30 current clamp is based on Hall effect technology for use in measurement of both dc and ac current. The i30 may be used in conjunction with multimeters, recorders and other suitable recording instruments for accurate non-intrusive current measurement.

Electrical specifications

Specified current range: 30 mA to 30 A DC,

30 mA to 20 A AC rms

Usable current range: 5 mA to 30 A DC,

30 mA to 20 A AC rms **Crest factor:** 1.4

Output sensitivity: 100 mV/A

Accuracy (at +25 °C): \pm 1 % of reading \pm 2 mA

Resolution: \pm 1 mA

Load impedance: $> 10 \text{ k Ohms and} \le 100 \text{ pF}$ **Conductor position sensitivity:** $\pm 1 \%$ relative to

center reading

Frequency range: DC to 20 kHz (- 0.5 dB) Temperature coefficient: \pm 0.01 % of reading/°C

Power supply: 9 V Alkaline, MN1604/PP3,

30 hours, low battery indicator

Working voltage (see Safety Standards section):

300 V ac rms or dc

General specifications

Maximum conductor size: 19 mm (.748 in)

diameter

Output connection: 4 mm (.157 in) safety

connector

Output zero: Manual adjust via thumbwheel

Cable length: 1.5 m (4.91 ft)

Operating temperature range: $0 \, ^{\circ}\text{C}$ to $+50 \, ^{\circ}\text{C}$

(-32 °F to 122 °F)

Storage temperature range (with battery removed): $-20 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ ($-4 \,^{\circ}\text{F}$ to $185 \,^{\circ}\text{F}$)

Operating humidity: 15~% to 85~%

(non-condensing) **Weight:** 250 g (.55 lb)



Safety standards

BS EN 61010-1: 2001 BS EN 61010-2-032: 2002 BS EN 61010-031: 2002

300 Vrms, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 300 V acrms or dc and frequencies below 1 kHz.

EMC Standards

EN 61326: 1998 +A1, A2, & A3

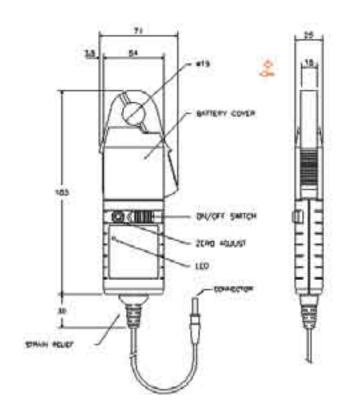
Ordering information i30 AC/DC Current Clamp



i30 connected to a Fluke 87V Digital Multimeter.

Dimensions (HxWxD)

183 mm x 71 mm x 25 mm (7.2 in x 2.8 in x 1 in)



Fluke. Keeping your world up and running.

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 Fax (425) 446-5116 In Europe/M-East/Africa +31 (0) 40 2 675 200 or Fax +31 (0) 40 2 675 222 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

©2006 Fluke Corporation. All rights reserved.
Specifications subject to change without notice.
Printed in U.S.A. 12/2006 2747126 D-EN-N Rev B