TECHNICAL DATA

Fluke i30 AC/DC Current Clamp

i30 connected to a Fluke 87V Digital Multimeter

SAFETY RATING

CAT III 300 V

KEY FEATURES

- Current clamp based on Hall Effect technology that measures both DC and AC current
- Includes banana plug end for compatibility with multimeters
- Current range: 30 mA to 30 A DC, 30 mA to 20 A AC rms
- Frequency range: DC to 20 kHz (0.5 dB)

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.

Specifications

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 °C to +50 °C (32 °F to 122 °F)
Storage temperature range (with battery removed)	-20 °C to +85 °C (-4 °F to 185 °F)
Operating humidity	15 % to 85 % (non-condensing)
Dimensions (HxWxD)	183 mm x 71 mm x 25 mm (7.2 in x 2.8 in x 1 in)
Weight	250 g (.55 lb)
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)	DC ± 1 % of reading ± 2 mA AC ± 0.5 dB of reading ± 2 mA
Resolution	± 1 mA
Load impedence	> 100 k Ohms and ≤ 100 pF
Conductor position sensitivity	± 1 % relative to center reading
Frequency range	DC to 20 kHz (0.5 dB)
Temperature coefficient	± 0.01 % of reading/°C
Power supply	9 V Alkaline, IEC 6LR61, 30 hours, low battery indicator
Working voltage (see safety standards)	300 V AC rms or DC

Ordering information

i30 AC/DC Current Clamp

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, and A3

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