TECHNICAL DATA

Fluke i30s AC/DC Current Clamp

SAFETY RATING

CAT III 300 V

KEY FEATURES

- Current clamp based on Hall Effect technology that measures both DC and AC current
- Includes a BNC connector for compatibility with oscilloscopes
- Current range: 30 mA to 30 A DC, 30 mA to 20 A AC rms
- Frequency range: DC to 100 kHz (0.5 dB)

i30s connected to a Fluke 199C ScopeMeter™

The i30s current clamp is based on Hall effect technology for use in measurement of both DC and AC current. The i30s may be used in conjunction with oscilloscopes and other suitable recording instruments for accurate non-intrusive current measurement.

Specifications

General specifications	
Maximum conductor size	19 mm (.748 in) diameter
Output connection	Safety BNC connector, supplied with safety 4 mm (.157 in) adapter
Output zero	Manual adjust via thumbwheel
Cable length	2 m (6.56 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 ≤ 100 pF
Conductor position sensitivity	± 1 % relative to center reading
Frequency range	DC to 100 kHz (0.5 dB)
Phase shift below 1 kHz	< 2 degrees
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

i30s 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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