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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

Current range: 20 A ac rms or dc
Measuring range: ± 30 A
Output sensitivity: 100 mV/A
Accuracy (at +25 °C): ± 1 % of reading ± 2 mA
Resolution: ± 1 mA
Load impedance: > 10 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, 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 °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)
Weight: 250 g (.55 lb)

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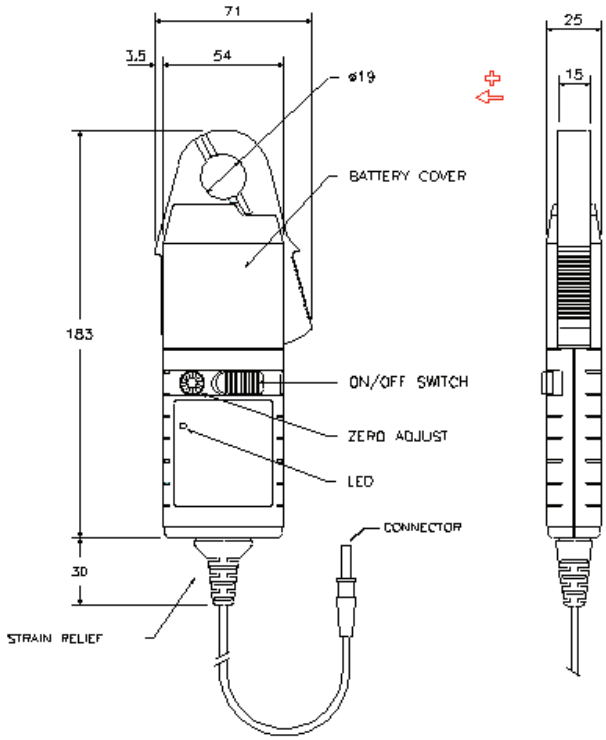
Safety standards
BS EN 61010-1: 2001
BS EN 61010-2-032: 2002
BS EN 61010-031: 2002

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

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



Ordering information
Fluke-i30 AC/DC Current Clamp

Fluke i30 connected to a Fluke 87V Digital Multimeter.

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Fluke i30s
AC/DC Current Clamp

Technical Data

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.

Electrical specifications

Current range: 20 A ac rms or dc
Measuring range: ± 30 A
Output sensitivity: 100 mV/A
Accuracy (at +25 °C): ± 1 % of reading ± 2 mA
Resolution: ± 1 mA
Load impedance: > 100 kΩ
Conductor position sensitivity: ± 1 % relative to centre 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, 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: 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)
Weight: 250 g (.55 lb)

Safety standards
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BS EN 61010-031: 2002

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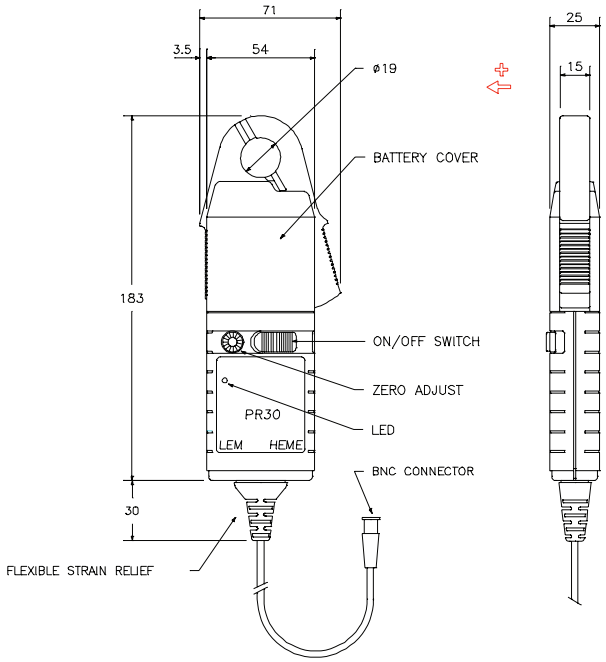

Ordering information
Fluke-i30s AC/DC Current Clamp

Fluke i30s connected to a Fluke 199C ScopeMeter.