

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 ± 2 mA
Resolution: ± 1 mA
Load impedance: > 10 k Ohms and ≤ 100 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/ $^{\circ}$ 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)

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

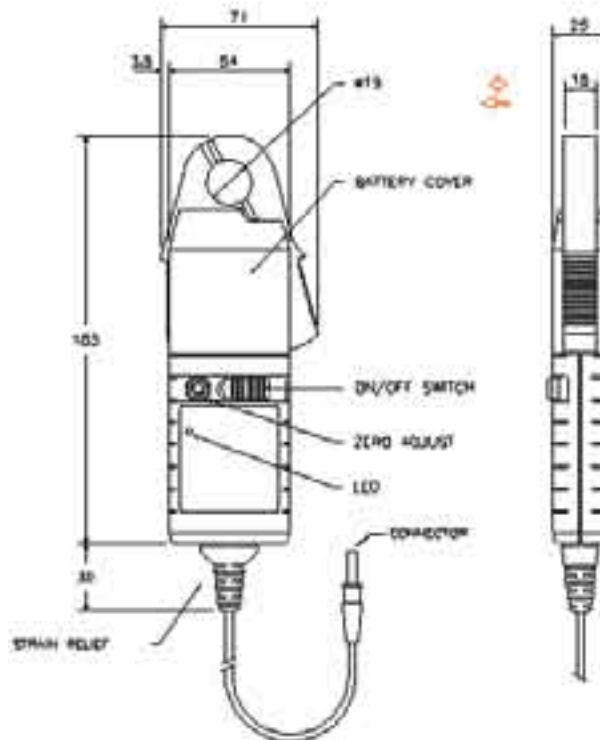
Use of the probe on uninsulated conductors is limited to 300 V acrms or dc and frequencies below 1 kHz.

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

i30 AC/DC Current Clamp



i30 connected to a Fluke 87V Digital Multimeter.

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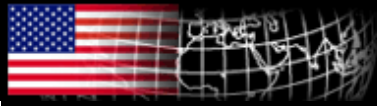
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Fluke i30 AC/DC Current Clamp

| 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 ≤ 100pF |
| 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 diameter |
| Output connection | 4 mm safety connector |
| Output zero | Manual adjust via thumbwheel |
| Cable length | 1.5 meters |
| Operating temperature range | 0 °C to +50 °C |
| Storage temperature range (with battery removed) | -20 °C to +85 °C |
| Operating humidity | 15 % to 85 % (non-condensing) |
| Weight | 250 g |
| 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 ac rms or dc and frequencies below 1 kHz. |
| EMC Standards | EN 61326: 1998 +A1, A2, & A3 |