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.

**Technical Data**

**Fluke i30s**

**AC/DC Current Clamp**

**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):** ± 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
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

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

Ordering information
i30s     AC/DC Current Clamp