

**TECHNICAL DATA** 

## Fluke i310s Current Probe



### **Key features**

- $\bullet\,$  Current Ranges: 30 A and 300 A AC  $_{\text{RMS}}$  or ±45 A and 450 A DC
- Measuring Ranges: ±45 A and 450 A dc
- Output Sensitivity: 10 mV/A (40 A) to 1 mV/A (400 A)
- Resolution: ±50 mA (40 A) to ±100 mA (400 A)
- Load Impedance: > 10 k Ohms and £ 100 pF
- Frequency Range (small signal): DC to 20 kHz (- 3 dB)
- Phase Shift below 1 kHz, < 2 degrees
- Temperature Coefficient: ±0.1% of reading / °C
- Power Supply: 9 V Alkaline

### **Product overview: Fluke i310s Current Probe**

The i310s current probe is based on Hall Effect technology for use in measurement of both DC and AC current. The i310s may be used in conjunction with oscilloscopes and other suitable recording instruments for accurate non-intrusive current measurement.

# Specifications: Fluke i310s Current Probe

Electrical Characteristics	
Current ranges	30 A and 300 A AC rms or ±45 A and 450 A DC



Measuring ranges	±45 A and 450 A DC		
AC rms or DC	±45 A and 450 A		
Inrush current	600A AC rms MAX		
0.1.1.27.7	10 mV/A (30 A)		
Output sensitivity	1 mV/A (300 A)		
A (- t + 00°0)	(30 A range)	±1% of reading ±50 mA	
Accuracy (at +23°C)	(300 A range)	±1% of reading ±300 mA	
Bandwidth to meet accuracy specification	1 kHz		
Phase shift below 1 kHz	< 2 degrees		
Resolution	±50 mA (30 A)		
Resolution	±100 mA (300 A)	100 mA (300 A)	
Load impedance	> 10 k Ohms and ≤100 pF		
Conductor position sensitivity	±1.5% relative to centre reading		
Frequency range (small signal)	DC to 20 kHz (-3 dB)		
Phase shift below 1 kHz	< 2°		
Temperature coefficient	±0.1% of reading / °C		
Power supply	9 V Alkaline, MN1604/PP3		
Battery life	30 Hours, low battery indicator		
Working voltage (see Safety Standards section)	300 V AC rms or DC		
General Characteristics			
Maximum conductor size	19 mm diameter		
Output connection	Safety BNC connector		
Output connection	Supplied with safety 4mm ada	Supplied with safety 4mm adaptor	
Output zero	Manual adjust via thumbwheel		
Cable length	2 metres		
Operating temperature range	-10 to +50°C		
Storage temperature range (with battery removed)	-20 to +85°C		
Operating humidity	15% to 85% (non-condensing)		
Weight	250 g		



Safety	IEC 61010-1, Pollution Degree 2
	IEC 61010-2- 032: CAT III 300V
	Use of the probe on uninsulated conductors is limited to 300 V ac rms or dc and frequencies below 1 kHz.
EMC Compatibility	IEC 61326-1: Portable Electromagnetic Environment



# **Ordering information**



Fluke-i310s

Current Probe



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