

TECHNICAL DATA

Fluke i310s Current Probe



Key features

- Current Ranges: 30 A and 300 A AC_{\tiny 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	



AC rms or DC nrush current	±45 A and 450 A		
nrush current	600A AC rmc MAX		
	600A AC rms MAX		
Output sensitivity	10 mV/A (30 A)		
	1 mV/A (300 A)		
Accuracy (at +23°C)	(30 A range)	±1% of reading ±50 mA	
	(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)		
	±100 mA (300 A)		
.oad impedance	> 10 k Ohms and ≤100 pF		
Conductor position sensitivity	±1.5% relative to centre reading		
requency range (small signal)	DC to 20 kHz (-3 dB)		
Phase shift below 1 kHz	< 2°		
emperature coefficient	±0.1% of reading / °C		
Power supply	9 V Alkaline, MN1604/PP3		
Battery life	30 Hours, low battery indicator		
Vorking voltage (see Safety Standards section)	300 V AC rms or DC		
General Characteristics			
Maximum conductor size	19 mm diameter		
Output connection	Safety BNC connector		
	Supplied with safety 4mm adaptor		
Dutput zero	Manual adjust via thumbwheel		
Cable length	2 metres		
Operating temperature range	-10 to +50°C		
Storage temperature range (with battery emoved)	-20 to +85°C		
Operating humidity	15% to 85% (non-condensing)		
Veight	250 g		



	IEC 61010-1, Pollution Degree 2
.	IEC 61010-2- 032: CAT III 300V
Safety	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



Fluke. Keeping your world up and running.®

Fluke Corporation PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:

In the U.S.A. (800) 443-5853 In Canada (800) 36-FLUKE From other countries +1 (425) 446-5500 www.fluke.com ©2023 Fluke Corporation. Specifications subject to change without notice. 10/2023

Modification of this document is not permitted without written permission from Fluke Corporation.