

**FLUKE®**



## Fluke i3000s Flex-24 AC Current Clamp, 610 mm (24 in.)

### Key features

- Three ranges: 30 A, 300 A & 3000 A, 1, 10 or 100 mV/A output
- Ideal for current measurement on thick and hard to reach conductors without breaking the circuit
- Maximum conductor diameter 178 mm (7 in.)
- CAT III 600 V safety rating

## Product overview: Fluke i3000s Flex-24 AC Current Clamp, 610 mm (24 in.)

The i3000s Flex is an ac current clamp utilizing the Rogowski principle. It can be used to measure currents up to 3000 A when used in conjunction with oscilloscopes, recorders or data loggers. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas.

### Specifications: Fluke i3000s Flex-24 AC Current Clamp, 610 mm (24 in.)

Electrical Specifications	
Current ranges	30 A
	300 A
	3000 A
	AC rms
Output sensitivity (AC-coupled)	100 mV
	10 mV
	1 mV per A
Load impedance	100 k $\Omega$ minimum
Accuracy	at +25°C: $\pm 1\%$ of range (45 Hz to 65 Hz)
Linearity	10% to 100% of range: $\pm 0.2\%$ of reading
Noise	8 mV AC rms (30 A)
	2 mV AC rms (300 A, 3000 A)
Frequency range	10 Hz to 50 kHz (-3 dB)
Phase error	$< \pm 1^\circ$ (45 Hz to 65 Hz)

	±10° (at 20 kHz)
Position Sensitivity	with cable > 25 mm from the coupling: ±2% of range
External field	with cable > 200 mm from the head: ±1% of range
Power supply	2 x AA/MN 1500/LR6 Alkaline, 400 hours, low battery indicator
Temperature coefficient	±0.08% of reading per °C
Working voltage	see Safety standards section: 600 V AC rms or DC
<b>General Specifications</b>	
Head circumference	610 mm (24 in)
Head cable diameter	14.3 mm (0.56 in)
Head bend radius	38.1 mm (1.5 in)
Cable length (head to electronics)	2 m (6.56 ft)
Output connection	0.5 m cable terminated with safety BNC connector. Supplied with 4mm safety plug adapter
Operating temperature range	-20°C to +90°C (-4°F to 190°F) (head)
	-20°C to +85°C (-4°F to 185°F) (electronics)
Storage temperature range	-40°C to +105°C (-40°F to 221°F) (head)
	-20°C to +85°C (-4°F to 185°F) (electronics)
Operating humidity	15% to 85% (non-condensing)
Weight	180 g (0.396 lb) (head)
	190 g (0.419 lb) (electronics)

Safety standards	BS EN 61010-1: 2001
	BS EN 61010-2-032: 2002
	BS EN 61010-031: 2002
	600 Vrms, Category III, Pollution Degree 2
	Use of the probe on uninsulated conductors is limited to 600 V AC rms or DC and frequencies below 1 kHz
EMC standards	EN 61326: 1998 +A1, A2, & A3
Head cable length (double insulated)	610 mm or 914 mm, depending on model

Models: Fluke i3000s Flex-24 AC Current Clamp, 610 mm (24 in.)

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