

TECHNICAL DATA

## Fluke i3000s Flex-36 AC Current Clamp, 915 mm (36 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

Also available in pack of 4 for use in Power Quality Analyzers. [Click here](#) for more info.

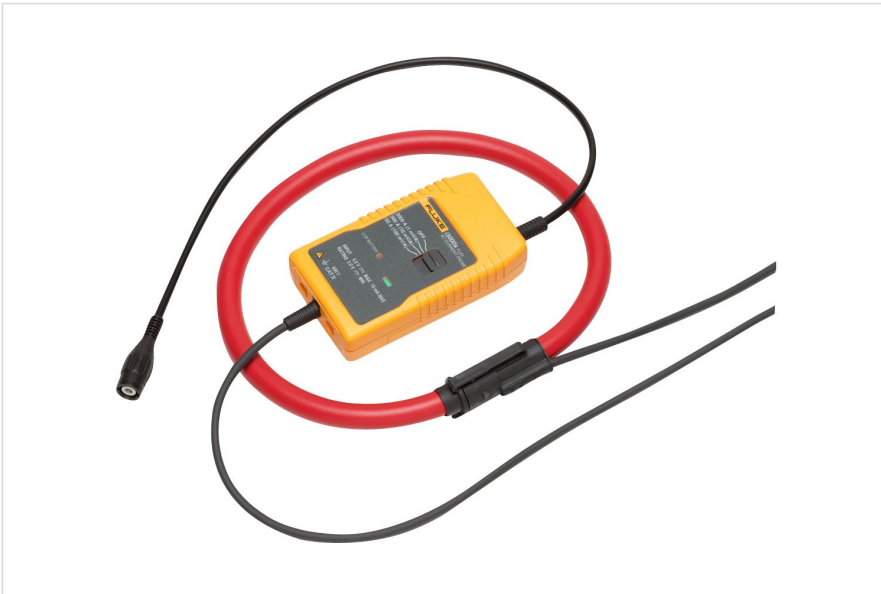
### Product overview: Fluke i3000s Flex-36 AC Current Clamp, 915 mm (36 in.)

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-36 AC Current Clamp, 915 mm (36 in.)

Electrical Specification	
Current ranges	30 A
	300 A
	3000 A
	AC rms
Output sensitivity (AC-coupled)	100 mV
	10 mV
	1mV per A
Load impedance	100 kΩ minimum
Accuracy	at +25°C: ±1% of range (45 Hz to 65 Hz)
Linearity	10% to 100% of range: ±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	< ±1° (45 Hz to 65 Hz)
	±10° (at 20 kHz)
Position sensitivity (with cable > 25 mm from the coupling)	 <p>Position sensitivity: From 1% up to 3% of range with cable, depending on distance from the center (see figure left). Measurements closer than 25 mm from the coupling are typically greater than 3% of range.</p> <p>External wire influence: 1% (-40 dB) of external current &gt;200 mm from head.</p>
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
General Specifications	
Head circumference	915 mm (36 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, and A3
Head cable length (double insulated)	610 mm or 914 mm, depending on model

## Ordering information



### **Fluke i3000s Flex 36**

AC Current Clamp, 915 mm (36 in.)

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