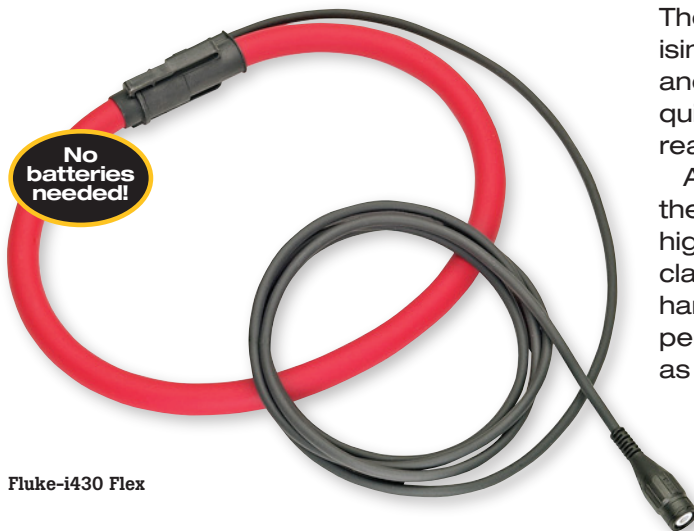


Fluke i430 Flex AC Current Probe

Technical Data



Fluke-i430 Flex

The i430 Flex is an AC current probe utilising the Rogowski principle. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas.

Also available as a pack of 4 pieces of the i430 current clamp, to be used for high current measurements. The Flex clamp fits around bus bars and large or hard-to-reach conductors. This 4-pack is perfect for use with 3-phase tools such as the Fluke 430 series.



Fluke-i430 Flex 4-pack

Electrical specifications

Current range: 3000 A ac rms
Voltage output (@1000 A rms, 50 Hz): 85 mV
Accuracy (@ 25 °C, 50 Hz): $\pm 1\%$ of reading
Linearity (10 % to 100 % of range): $\pm 0.2\%$ of reading
Noise (10 Hz to 7 kHz): 1.0 mV ac rms
Output impedance: 82 Ω min
Load impedance: 50 k Ω
Internal resistance per 100 mm probe length: 10.5 $\Omega \pm 5\%$
Bandwidth (-3 dB): 10 Hz to 7 kHz
Phase error (45 Hz to 65 Hz): $\pm 1^\circ$
Position sensitivity: $\pm 2\%$ of reading max.
Temperature coefficient: $\pm 0.08\%$ max of reading per °C
Working voltage (see Safety Standards section): 1000 V ac rms or dc (head), 30 V max. (output)

General specifications

Probe and cable material: TPE rubber, reinforced insulation; UL94 V-0, Colour: RED Munsell 7.5; R 1/14
Couplings material: Polypropylene, UL94 V-0
Probe cable length: 610 mm
Probe cable diameter: 12.4 mm
Probe cable bend radius: 40 mm
Output cable length: 2.5 meters RG58
Output connector: Safety BNC Connector
Operating temperature range: -20 °C to +90 °C
Storage temperature range: -40 °C to +105 °C
Operating humidity: 15 % to 85 % (non condensing)
Degree of protection (probe): IP41

Safety Standards

BS EN 61010-1 2001

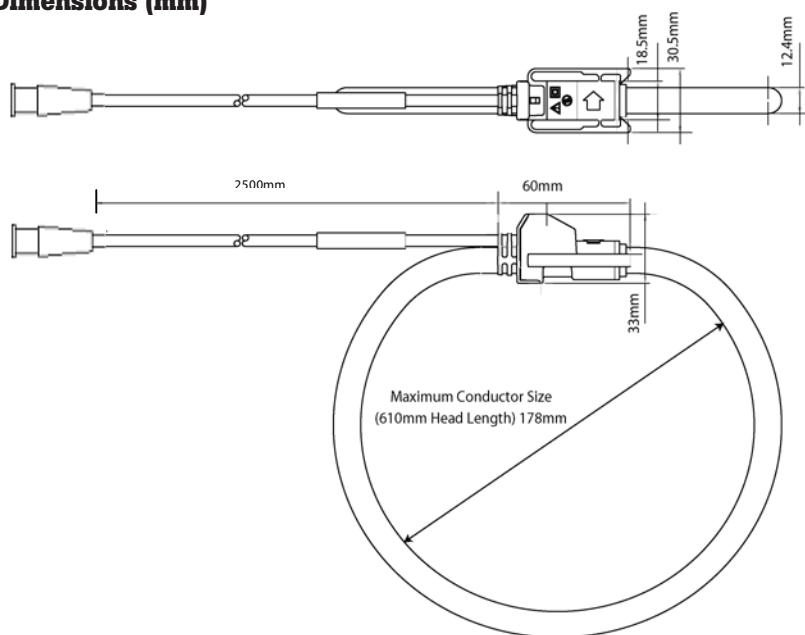
BS EN 61010-2-032 2002

BS EN 61010-031 2002, 1000 V rms, Category III,
Pollution Degree 2

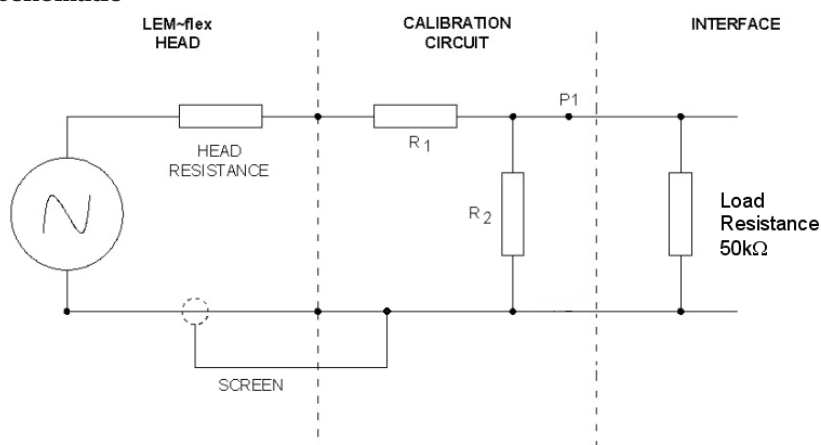
Use of the probe on **uninsulated conductors**
is limited to 1000 V ac rms or dc and frequencies
below 1 kHz.

Please note that this probe is designed to work
with Fluke 435, if used with other products safety
rating for the output to earth is limited to 600 V ac
rms or dc.

Dimensions (mm)



Schematic



Ordering information

Fluke-i430 Flex	3000A AC
	Flex Current Probe
Fluke-i430 Flex 4pk	3000A AC
	Flex Current Probe,
	4 pack

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