

## 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  $\Omega$  min  
**Load impedance:** 50 k $\Omega$   
**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  $^\circ\text{C}$   
**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:**  $-20^\circ\text{C}$  to  $+90^\circ\text{C}$   
**Storage temperature range:**  $-40^\circ\text{C}$  to  $+105^\circ\text{C}$   
**Operating humidity:** 15 % to 85 % (non condensing)  
**Degree of protection (probe):** IP41

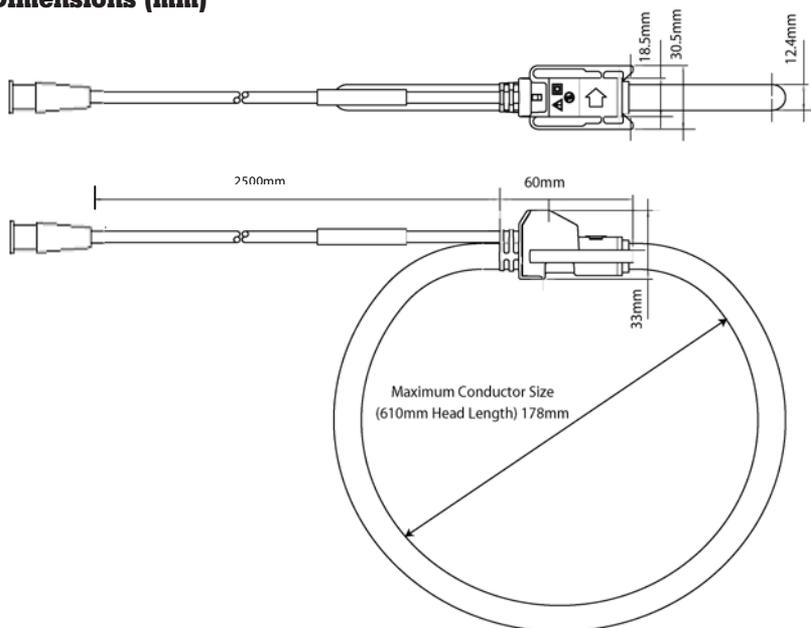
**Safety Standards**

BS EN 61010-1 2001  
 BS EN 61010-2-032 2002  
 BS EN 61010-031 2002, 1000 V rms, Category III,  
 Pollution Degree 2

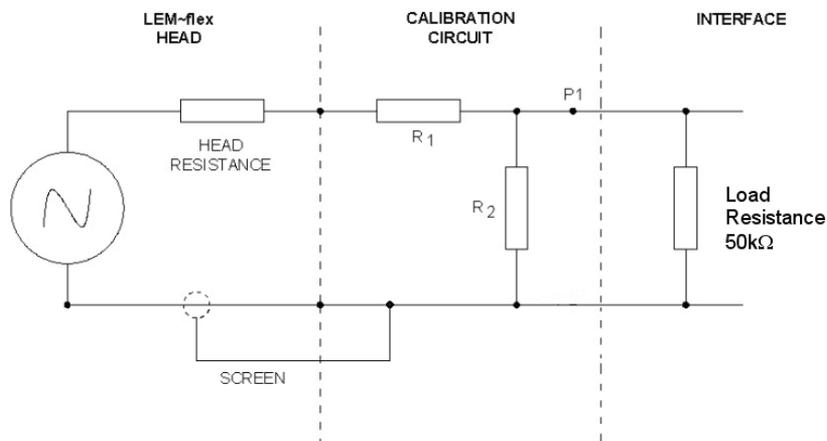
Use of the probe on **uninsulated conductors** is limited to 1000 V ac rms or dc and frequencies below 1 kHz.

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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