LIMITED WARRANTY & LIMITATION OF LIABILITY

Each Fluke product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one year from date of shipment to the original end-user customer of a Fluke authorized reseller, and does not apply to fuses, disposable batteries or to any product which, in Fluke’s opinion, has been misused, altered, neglected or damaged by accident or abnormal conditions of operation or handling. Fluke warrants that software will operate substantially in accordance with its functional specifications for 90 days and that it has been properly recorded on non-defective media. Fluke does not warrant that software will be error free or operate without interruption.

Fluke authorized resellers shall extend this warranty on new and unused products to end-user customers only but have no authority to extend a greater or different warranty on behalf of Fluke. Warranty support is available if product is purchased through a Fluke authorized sales outlet or Buyer has paid the applicable international price. Fluke reserves the right to invoice Buyer for importation costs of repair/replacement parts when product purchased in one country is submitted for repair in another country.

Fluke’s warranty obligation is limited, at Fluke’s option, to refund of the purchase price, free of charge repair, or replacement of a defective product which is returned to a Fluke authorized service center within the warranty period.

To obtain warranty service, contact your nearest Fluke authorized service center or send the product, with a description of the difficulty, postage and insurance prepaid (FOB Destination), to the nearest Fluke authorized service center. Fluke assumes no risk for damage in transit. Following warranty repair, the product will be returned to Buyer, transportation prepaid (FOB Destination). If Fluke determines that the failure was caused by misuse, alteration, accident or abnormal condition of operation or handling, Fluke will provide an estimate of repair costs and obtain authorization before commencing the work. Following repair, the product will be returned to the Buyer transportation prepaid and the Buyer will be billed for the repair and return transportation charges (FOB Shipping Point).

THIS WARRANTY IS BUYER’S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. FLUKE SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, WHETHER ARISING FROM BREACH OF WARRANTY OR BASED ON CONTRACT, TORT, RELIANCE OR ANY OTHER THEORY.

Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any provision of this Warranty is held invalid or unenforceable by a court of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.

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Fluke Industrial B.V.
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7600 AB Almelo
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SERVICE CENTERS

To locate an authorized service center, visit us on the World Wide Web:
http://www.fluke.com

or call Fluke using any of the phone numbers listed below:
+1-888-993-5853 in U.S.A. and Canada
+31-40-267-5200 in Europe
+1-425-446-5500 from other countries

FLUKE
6000 A Flexible AC Current Probe

Instruction Sheet

Introducing the i430-Flexi-TF

The i430-Flexi-TF is a flexible AC current probe for use with the Fluke 430 series Power Quality Analyzers including Series II. The i430-Flexi-TF is optimized for current measurement on thick and hard to reach conductors.

Unpacking

The following items should be included in the package:
- i430-Flexi-TF Current Probe(s)
- Instruction Sheet (this paper)

Check the contents of the shipping box for completeness. If something in the box has been damaged or missing, contact your distributor or the nearest FLUKE sales or service office immediately.

⚠️ Safety Information

Read First: Safety Information

To prevent possible electrical shock, fire, or personal injury:
- Read all safety information before you use the Product.
- Carefully read all instructions.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Comply with local and national safety codes. Use personal protective equipment (approved rubber gloves, face protection, and flame-resistant clothes) to prevent shock and arc blast injury where hazardous live conductors are exposed.
- Limit operation to the specified measurement category, voltage, or amperage ratings.
- De-energize the circuit or wear personal protective equipment in compliance with local requirements before you apply or remove the Flexible Current Probe.
- Do not touch voltages >30 V ac, 42 V ac peak, or 60 V dc.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not use the Product if it operates incorrectly.
- Before each use, examine the Product. Look for cracks or missing pieces of the clamp housing or output cable insulation. Also look for loose or weakened components. Carefully examine the insulation around the jaws.
- Do not use a current measurement as an indication that a circuit is safe to touch. A voltage measurement is necessary to know if a circuit is hazardous.
- Do not use the Product if it is damaged.

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December 2011, Rev.1, 12/13
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Specifications

**SAFETY**  The i430-Flexi-TF complies with:

- IEC 61010-1: Pollution degree 2
- IEC 61010-2-032: 1000V CAT III/ 600V CAT IV
- IEC 61010-031

**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>0.5 to 6000 A ac</td>
</tr>
<tr>
<td>Maximum non-destructive current</td>
<td>100 kA (50/60 Hz)</td>
</tr>
<tr>
<td>Output signal</td>
<td>86.6 mV at 1000A/50Hz (on 1 MO)</td>
</tr>
<tr>
<td>Basic accuracy</td>
<td>±1% of reading</td>
</tr>
<tr>
<td>Linearity</td>
<td>±0.2% of reading at 10%...100% of range</td>
</tr>
<tr>
<td>Noise</td>
<td>&lt;1 mV rms at 10 Hz ...10 kHz</td>
</tr>
<tr>
<td>Additional errors:</td>
<td></td>
</tr>
<tr>
<td>• temperature coefficient</td>
<td></td>
</tr>
<tr>
<td>over operating temperature</td>
<td></td>
</tr>
<tr>
<td>range</td>
<td></td>
</tr>
<tr>
<td>• with position of conductor in</td>
<td></td>
</tr>
<tr>
<td>the probe window (see Figure 1)</td>
<td></td>
</tr>
<tr>
<td>A = 12.7 mm (0.5 in)</td>
<td></td>
</tr>
<tr>
<td>B = 20.3 mm (0.8 in)</td>
<td></td>
</tr>
<tr>
<td>C = 35.6 mm (1.4 in)</td>
<td></td>
</tr>
<tr>
<td>0.5 to 30 A</td>
<td></td>
</tr>
<tr>
<td>External magnetic field</td>
<td>40 dB (with cable &gt;100 mm from the head coupling and r-coil)</td>
</tr>
<tr>
<td>rejection in reference to external current</td>
<td></td>
</tr>
<tr>
<td>Phase shift (fundamental frequency)</td>
<td>&lt;= ±1°</td>
</tr>
<tr>
<td>Bandwidth (-3 dB)</td>
<td>10 Hz to 10 kHz</td>
</tr>
<tr>
<td>Frequency derating</td>
<td>1 x f ≤385 kA Hz</td>
</tr>
<tr>
<td>Working voltage</td>
<td>1000V CAT III, 600V CAT IV</td>
</tr>
</tbody>
</table>

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>196 g</td>
</tr>
<tr>
<td>Transducer length</td>
<td>610 mm (24 in)</td>
</tr>
<tr>
<td>Transducer diameter</td>
<td>7.5 mm (0.3 in)</td>
</tr>
<tr>
<td>Minimum bending radius</td>
<td>38 mm (1.5 in)</td>
</tr>
<tr>
<td>Cable length from</td>
<td>2.5 m (98.4 in)</td>
</tr>
<tr>
<td>transducer to BNC</td>
<td></td>
</tr>
<tr>
<td>Temperature, operating</td>
<td>-20 °C to +70 °C (-4 °F to +158 °F)</td>
</tr>
<tr>
<td>Temperature, non-operating</td>
<td>-40°C to + 80 °C (+40 °F to +176 °F)</td>
</tr>
<tr>
<td>Relative Humidity, operating</td>
<td>15 to 85 %, non condensing</td>
</tr>
<tr>
<td>Altitude, operating</td>
<td>3000 m</td>
</tr>
<tr>
<td>Altitude, storage</td>
<td>12 km</td>
</tr>
</tbody>
</table>

**Symbols**

- Do not apply around or remove from HAZARDOUS LIVE conductors.
- Product is protected by double insulation.
- Risk of Electric Shock.
- Conforms to relevant European standards.
- Conforms to relevant North American Safety Standards.
- Conforms to relevant Australian standards.
- Do not dispose of this product as unssorted municipal waste. Go to Fluke’s website for recycling information.
- Examined and licensed by TÜV Product Services.
- ROHS China

**Instrument Compatibility**

The i430-Flexi-TF can only be used with the Fluke 433/434/435/434-II/435-II/437-II Power Quality Analyzers. Maximum measurement range on all models: 6000 A. Minimum measurement range on Fluke 433/434/435: 30 A.

**Using the i430-Flexi-TF**

To use the i430-Flexi-TF, follow these instructions:

1. Connect the BNC connector of the i430-Flexi-TF to the desired input on the Fluke 430 series Power Quality Analyzer.

   ![Figure 1. Connecting the flexible probe around the conductor.](hqg01.eps)

   **Warning**

   If the selected current probe of the Fluke 430 series Power Quality Analyzer is not the i430 Flex (on Fluke 430 series I) or i430-Flexi-TF (on Fluke 430 series II), the Fluke 430 will display false and misleading readings.

**Maintenance**

Before each use, assure continued safety by inspecting the flexible probe and its latching system for any damage. Pay particular attention to the insulation surrounding the flexible probe. An i430-Flexi-TF under warranty will be promptly repaired or replaced (at Fluke’s discretion) and returned at no charge.

**Warning**

To prevent possible electrical shock, fire, or personal injury:

- Remove the input signals before you clean the Product.
- Have an approved technician repair the Product.

**Cleaning and Storage**

- The flexible probe and its latching system require no special care. Ensure that no foreign body obstructs the latching mechanism.
- Clean the i430-Flexi-TF with a damp cloth and a mild detergent. Do not use abrasives, solvents, or alcohol.

**If your i430-Flexi-TF does not work**

If the i430-Flexi-TF does not perform properly, use the following steps to help isolate the problem:

- Inspect the coupling system for any damage. If any foreign material is present, the coupling system will not close properly and errors will result.
- Inspect the cable between the flexible probe and the Power Quality Analyzer for any damage.
- Check if the i430-Flexi-TF is the selected current probe on the Power Quality Analyzer (Clamp i430-Flexi-TF).
- Verify that the function and range selection on the Power Quality Analyzer is correct.