SAFETY

The following symbols appear on the product:

- Attention! Refer to manual.
- Application around and removal from UNINSULATED HAZARDOUS LIVE conductors is permitted.
- Double/reinforced insulation.
- Complies with the relevant European standards.
- Do not dispose of this product as unsorted municipal waste. Contact a qualified recycler for disposal.

To avoid electric shock:
- Use caution during installation and use of this product. High voltages and currents may be present in circuit under test.
- This product must be used only by qualified personnel practising applicable safety precautions.
- Do not use product if damaged.
- Always connect probe to display device before it is installed around the conductor.
- Always ensure that the probe is removed from any live electrical circuit, and that leads are disconnected before removing the battery cover.
- Do not hold the probe anywhere beyond the tactile barrier see Fig. 1.

SPECIFICATION

Electrical data
(All accuracies stated at 23°C ± 1°C)
Nominal current .............. 30 A AC peak or DC
Measuring range (s) ......... 30 A
Overload capacity ........... 500 A (60 s)
Output sensitivity .......... 100 mV/A
Accuracy ..................... ± 1% of reading ± 2 mA
Resolution .................... ± 1 mA
Gain variation .............. ±0.01% of reading/°C
Frequency range1) .......... DC to 100 kHz (0.5 dB)

Power supply ................. 9 V Alkaline battery
........................................... PP3, MN 1604
........................................... or IEC6LR61
Load impedance (minimum) .... > 100 kΩ and ≤ 100 pF

General data
Conductor size ............... 25 mm diameter
Output cable and connectors .. 2 m long coax terminated
........................................... with safety BNC connector
Operating temperature ...... 0 °C to +50 °C
Storage temperature with battery removed .......... -20 °C to +85 °C

1) Accuracy quoted is for conductor in centre of aperture

Gain in dB (wrt 100 Hz)

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Phase shift in degrees</th>
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<tbody>
<tr>
<td>10</td>
<td>-10</td>
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<td>-20</td>
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<tr>
<td>10000</td>
<td>-25</td>
</tr>
<tr>
<td>100000</td>
<td>-30</td>
</tr>
</tbody>
</table>

Typical frequency plot

Fig. 1.

1. Jaws
2. Conventional current direction
3. Tactile barrier
4. Battery cover
5. Battery cover screw
6. Jaw trigger
7. On/off switch
8. Auto zero button
9. LED
OPERATING INSTRUCTIONS

Switch On

When the probe is switched on to the required measuring range, the green LED will illuminate. The LED starts flashing when the battery voltage is too low for normal operation and warns the user that it requires changing. This procedure is described below.

Auto Zero

The output zero offset voltage of the probe may change due to thermal shifts and other environmental conditions. Select the required measuring range and, to null the output voltage, depress the Auto Zero button. Ensure that the probe is away from the current carrying conductor while the probe is being nulled.

Current Measurement

1. Switch on the probe using the on/off switch and check that the green LED is lit.
2. Connect the output lead to the oscilloscope.
3. Zero the probe using the Auto Zero button.
4. Clamp the jaws of the probe round the conductor ensuring a good contact between the closing faces of the jaws.
5. Observe and take measurements as required. Positive output indicates that the current flow is in the direction shown by the arrow on the probe.

Auto Power OFF

In order to save battery life, the probe will automatically switch itself off after approximately 10 minutes. To disable the Auto power off function, switch off the probe and switch on while pressing the Auto Zero button. The red LED will illuminate and the probe will stay ON until switched off again.

Battery Replacement

The green or red LED will flash when the minimum operating voltage is approached (refer to Fig. 1). Use the following procedure:

Unclamp the probe from the conductor, turn it off using the on-off switch and disconnect the output leads from external equipment.

Loosen the captive screw which secures the battery cover. Lift the cover through 30° and pull it clear of the probe body as shown in Fig. 1. Replace the battery, re-fit the battery cover and fasten the screw.

Fit only 9 V battery type PP3 Alkaline (MN 1604).

SAFETY STANDARDS

EN 61010-1
EN 61010-2-032
300 V Cat III, Pollution Degree 2

EMC Standards

EN 61326-2-2
ROHS and WEEE compliant

This product is designed to be safe under the following conditions:
- indoor use
- altitude up to 2000 m
- temperature 0 °C to +50 °C
- maximum relative humidity 80% for temperatures up to 31 °C decreasing linearly to 40% relative humidity at 50 °C.

Use of the probe on uninsulated conductors is limited to 300 V AC RMS or DC. and frequencies below 1 kHz.

Safety in its use is the responsibility of the operator who must be a suitably qualified or authorised person. Ensure that your fingers are behind the tactile barrier (see Fig. 1) when using the probe. Always inspect the probe and lead for damage before use.

To avoid electric shock, keep the probe clean and free of surface contamination.

Use a cloth moistened with isopropyl alcohol to clean the probe. Ensure that the probe is completely dry before using.

WARRANTY

Your current probe is guaranteed for one year from the date of purchase against defective material or workmanship. If the probe fails during the warranty period, we shall, at our discretion, repair or replace it with a new or reconditioned unit provided we are satisfied that the failure is due to defective material or workmanship. To make a claim under warranty, return the probe to us, postage prepaid, with a description of the defect.

Goods alleged by the buyer to be defective shall not form the subject of any claim for injury, loss, damage, or any expense howsoever incurred, whether arising directly or indirectly from such alleged defects other than death or personal injury resulting from the seller's negligence.

No condition is made or to be implied, nor is any warranty given or to be implied as to the life or wear of goods supplied or that they will be suitable for any particular purpose or for use under specific conditions, notwithstanding that such purpose or conditions may be made known to the seller.

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