

AMPROBE® MODEL ACF-3000 SR FLEXIBLE CURRENT TRANSDUCER



- Accessory for the DM-III
- Current measurement from 15A to 3000Afor each of the three phases
- Neutral wire current measurement down to milliamps
- Flexible head fits all small conductors and large bus-bars up to 7" in diameter
- Recommended one ACF-3000 SR for single phase system, and three for three phase systems
- Output Sensitivity (AC coupled): 0.333 mV per Amp
- Safety: CATIII 600

Optional Accessories	Part Number
External power supply	ACF-3



Miramar, FL www.amprobe.com Phone:954-499-5400 Fax:954-499-5454

Electrical Characteristics

Current Ranges Output Sensitivity (AC coupled) Load Impedance

Accuracy (at +25°C)

Linearity (10% to 100% of range)

Frequency Range Phase Error

Position Sensitivity (with cable > 25mm from the coupling)

External Field (with cable > 200mm from the head)

Power Supply

Low battery indication External power Gain variation

Common mode voltage

Working Voltage (see Safety Standards section)

3000 A ACRMS

0.333 mV per A 100 kOhm minimum

± 1% of range (45 - 65 Hz)

± 0.2% of reading 0.3 mV ACRMS

10 Hz to 5 kHz (- 3 dB)

 $< \pm 1^{\circ} (45 - 65 \text{Hz}), \pm 10^{\circ} (\text{at 5 kHz})$

± 2% of range ± 1% of range

2 x AAMN 1500 LR6 alkaline 4000 hours, 3000 hrs typical

Red LED

Battery eliminator, via 2.1mm connector, 3V DC: Socket type A16M500

± 0.08% of reading per 1.8° F (1° C)

Voltage between Output and Earth must not exceed 30V

600 V ACRMS or DC

General Characteristics

Head Cable Colour...... Yellow Head Cable Length (double insulated)...... 24 inches (610mm) Head Cable Diameter...... 0.562 inches (14.3 mm) Head Bend Radius 1.5 inches (38.1 mm) Operating Temperature Range-4 to 194° F (-20 to +90° C) head -4 to 185° F (-20 to +85° C) electronics Storage Temperature Range..... -40 to 221° F (-40 to +105° C) head: -4 to 185° F (-20 to +85° C) electronics Operating Humidity...... 15% to 85% (non condensing)

The ACF-3000 SR is an AC current probe utilising the Rogowski principle. It can be used to measure currents up to

Safety Standards

Safety Standards BSEN61010-1: 1993, 600V Cat III, Pol. Deg 2

Use of the probe on uninsulated conductors is limited to 600 V ACRMS or DC and frequencies below 1 kHz.

EMC Standards EN 61326: 1998



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^{*} Specifications subject to change without notice