



**AMPROBE®** **MODEL ACF-3000 SR**  
**FLEXIBLE CURRENT TRANSDUCER**



- ▶ Accessory for the DM-III
- ▶ Current measurement from 15A to 3000A for 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



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**AMPROBE®****MODEL ACF-3000 SR****FLEXIBLE CURRENT TRANSDUCER****Electrical Characteristics**

Current Ranges	3000 A ACRMS
Output Sensitivity (AC coupled)	0.333 mV per A
Load Impedance	100 kOhm minimum
Accuracy (at +25°C)	± 1% of range (45 – 65 Hz)
Linearity (10% to 100% of range)	± 0.2% of reading
Noise	0.3 mV AC <sub>RMS</sub>
Frequency Range	10 Hz to 5 kHz (- 3 dB)
Phase Error	< ± 1° (45 – 65Hz), ± 10° (at 5 kHz)
Position Sensitivity (with cable > 25mm from the coupling)	± 2% of range
External Field (with cable > 200mm from the head)	± 1% of range
Power Supply	2 x AAMN 1500 LR6 alkaline 4000 hours, 3000 hrs typical
Low battery indication	Red LED
External power	Battery eliminator, via 2.1mm connector, 3V DC: Socket type A16M500
Gain variation	± 0.08% of reading per 1.8° F (1° C)
Common mode voltage	Voltage between Output and Earth must not exceed 30V
Working Voltage (see Safety Standards section)	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)
Cable Length (head to electronics) .....	: 78.7 inches (2 meters)
Output Connection .....	: Hypotronics D01EEB306FST
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)
Weight.....	: 0.40 Lb (180 g) head,

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

\* Specifications subject to change without notice

**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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