

FlexProbe® Flexible Current Probe Models 24-3001 & 24-3002



Model 24-3001

The FlexProbe® Models 24-3001 and 24-3002 are low cost AC current measurement probes designed to plug into digital multimeters, oscilloscopes, and power recorders. The Model 24-3001 is composed of a

flexible sensor and an electronic module with a 14" double insulated cable, while the Model 24-3002 has a flexible sensor and an electronic module with 4mm safety banana plugs with 3/4" spacing. The flexible sensors

are designed to fit around large or small conductors and are capable of getting into tight or difficult places. They are ideal for measuring AC current in a group of conductors.

Features

- 24" flexible sensor fits around conductors up to 7.6" in diameter
- Dual measurement ranges of 300A and 3000AAC
- Read amperage directly on DMM display
- mV output directly proportional to the AC current measured
- Output is 10mV/A on 300A range and 1mV/A on 3000A range
- Accuracy of 1% of Reading \pm 500mA

- 4% influence of conductor position in jaw
- Up to 300 hour battery life
- Dual banana plug termination for direct input into DMMs (Model 24-3001)
- Electronic module with 4mm safety banana plugs with 3/4" spacing (Model 24-3002)
- EN 61010, 1000V Cat. III, Pollution Degree: 2
- Flashing LED low battery indicator

Applications

- Motor testing and troubleshooting
- Load monitoring
- HVAC troubleshooting
- Power analysis
- Transformer testing
- Substation testing



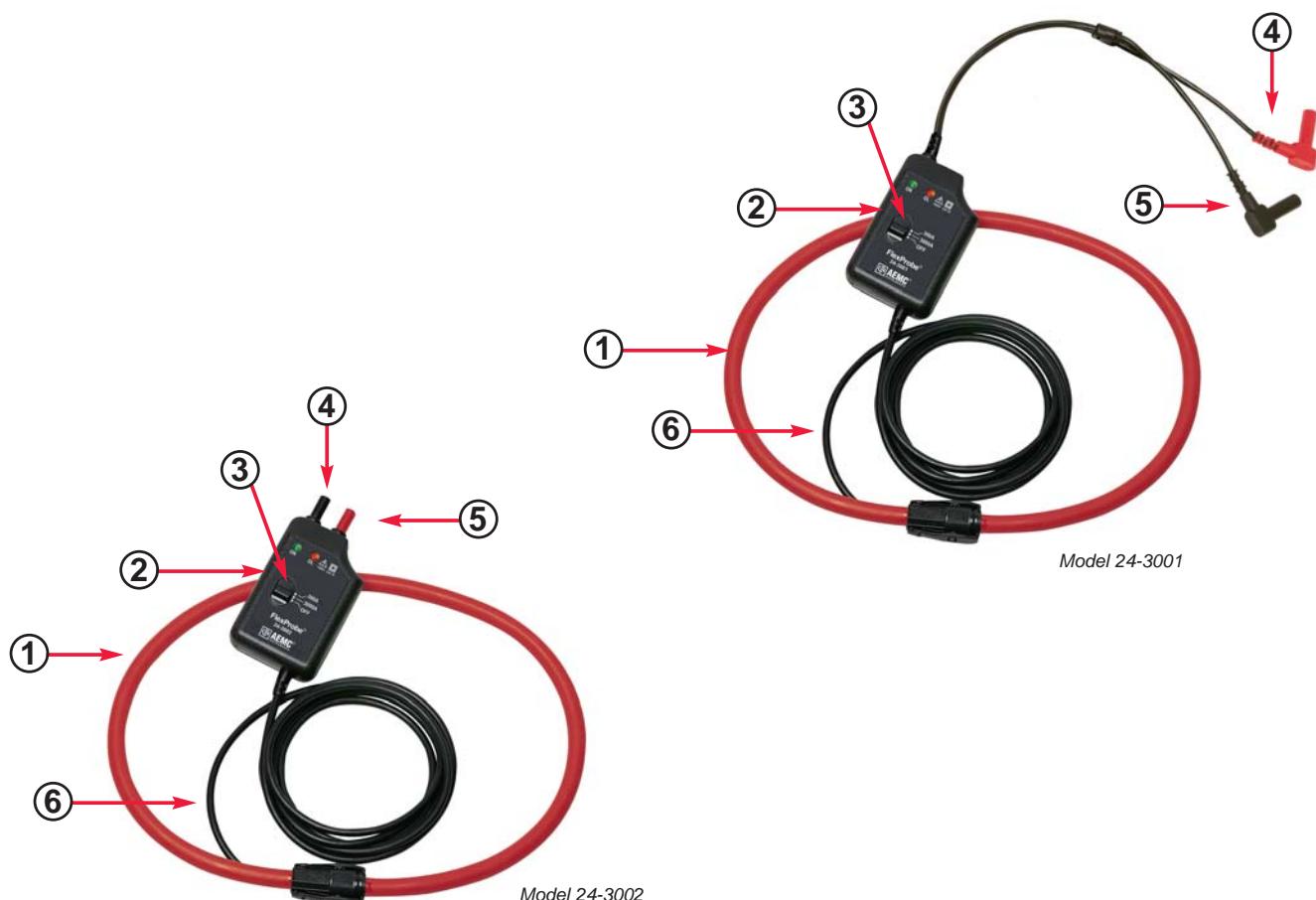
FlexProbe® conveniently plugs into the standard DMM voltage input for direct read-out of the measured current.

Specifications

MODELS	24-3001	24-3002
ELECTRICAL		
Current Range	300/3000AAC	
Output Signal	mV output (4000mV peak max)	
Three Position Slide Switch 10mV/A 1mV/A ON/OFF		5A to 300Arms 50A to 3000Arms
AC Current Accuracy	1% of Reading ± 500mA	
Crest Factor	4.5	
Phase Shift*	<0.7° at 50 or 60Hz	
Frequency Range	40 to 5kHz	
Working Voltage	1000Vrms max (Cat. III)	
Common Mode Voltage	600Vrms max	
Power Source	9V Alkaline (NEDA 1604A, IEC 6LR61)	
Battery Life	150 hours typical (continuous use) 300 hours with Lithium battery	
MECHANICAL		
Dimensions	4.9 x 2.5 x 1.1" (124 x 64 x 28mm)	
Weight (with battery)	1.1 lb (0.5kg)	
Maximum Conductor Size	7.6" (193mm)	
Sensor Length	24" ± 1" (610mm ± 25.4mm)	
Cable Length	6.5 ft (2m)	
Output	Double insulated 14" (36cm) lead with safety banana plugs	4mm safety banana plugs (red and black)
ENVIRONMENTAL		
Operating Temperature	14° to 131°F (-10° to +55°C)	
Storage Temperature	40° to 70°F (-40° to +158°C)	
Operating Relative Humidity	50° to 86°F (10° to 30°C) 85 to ±5% RH (non-condensing) 104° to 122°F (40° to 50°C) 45 to ±5% RH (non-condensing)	
SAFETY		
Rating	EN 61010, 1000V, Cat. III, Pollution Degree: 2	
CE Mark	Yes	

*Reference Conditions: 23°C ± 3K, 20 to 70% RH, 50Hz, 1 minute warm-up, battery at 9V ± 0.1V, external magnetic field <40A/m, no DC component, no external current carrying conductor, 10MΩ load, conductor center.

Construction



Model 24-3001

Model 24-3002

Model 24-3001

1. Flexible Sensor
2. Electronic Module
3. Range Selection Switch
4. Positive: Red Banana Plug (+)
5. Common: Black Banana Plug (-)
6. Lead

Model 24-3002

1. Flexible Sensor
2. Electronic Module
3. Range Selection Switch
4. Common: Black Banana Plug (-)
5. Positive: Red Banana Plug (+)
6. Lead



Banana (female) - BNC (male) Adaptor
Catalog #2118.46 (optional)

ORDERING INFORMATION

CATALOG NO.

FlexProbe® Model 24-3001 (300/3000AAC, 24", 10mV/A/1mV/A, with lead)	Cat. #2120.81
FlexProbe® Model 24-3002 (300/3000AAC, 24", 10mV/A/1mV/A)	Cat. #2120.82
Accessories	
Banana (Female) – BNC (Male) Adapter	Cat. #2118.46

Contact Us

United States & Canada:

Chauvin Arnoux®, Inc.
d.b.a. AEMC® Instruments
200 Foxborough Blvd.
Foxborough, MA 02035 USA
(508) 698-2115 • Fax (508) 698-2118
www.aemc.com

Customer Support – for placing an order, obtaining price & delivery:
customerservice@aemc.com

Sales Department – for general sales information:
sales@aemc.com

Repair and Calibration Service – for information on repair & calibration, obtaining a user manual:
repair@aemc.com

Technical and Product Application Support – for technical and application support:
techinfo@aemc.com

Webmaster – for information regarding www.aemc.com:
webmaster@aemc.com

South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux®, Inc.
d.b.a. AEMC® Instruments
15 Faraday Drive
Dover, NH 03820 USA
(978) 526-7667 • Fax (978) 526-7605
export@aemc.com
www.aemc.com

All other countries:

Chauvin Arnoux SCA
190, rue Championnet
75876 Paris Cedex 18, France
33 1 44 85 45 28 • Fax 33 1 46 27 73 89
info@chauvin-arnoux.com
www.chauvin-arnoux.com