

User's Guide

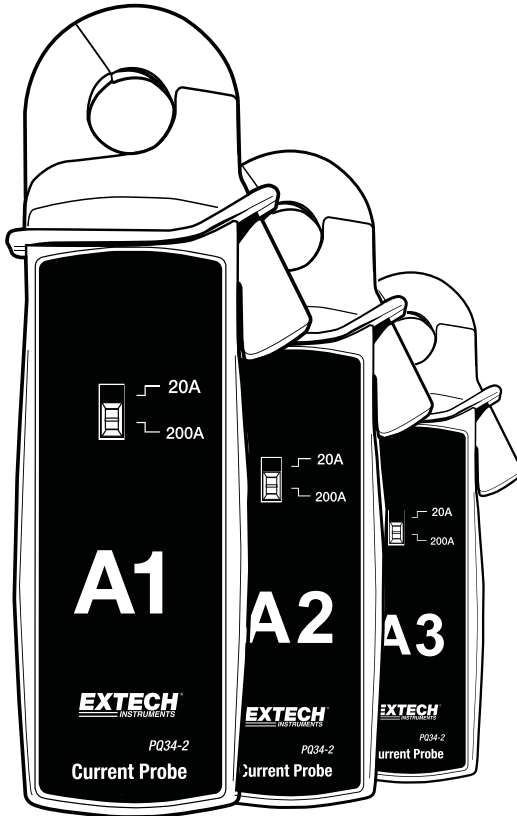
EXTECH[®]

INSTRUMENTS

A FLIR COMPANY

200A Current Probe Set

Model PQ34-2



Introduction

Congratulations on your purchase of this Extech Current Probe Set. A set of three 200A current probes designed to be used with the Extech PQ3450 or PQ3470 Power Analyzers. These probes are shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

Safety



This symbol, adjacent to another symbol or terminal, indicates the user must refer to the manual for further information.



This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present



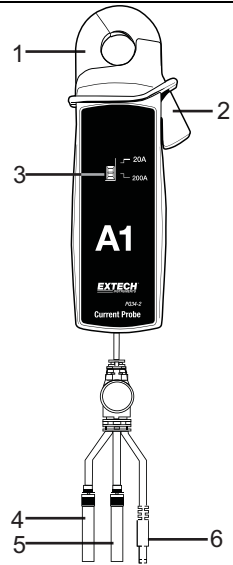
Double insulation

Cautions

- Read and understand this user manual before operating the meter.
- Improper use of this meter can cause damage, shock, injury or death.
- Inspect the condition of the leads and the meter itself for any damage before operating the meter.
- Use great care when making measurements if the voltages are greater than 25VAC rms or 35VDC. These voltages are considered a shock hazard.
- Do not attempt to measure Current that exceeds specified limits
- Do not operate this instrument in wet or dusty environments.
- Do not operate this instrument in the presence of combustible or explosive gas
- Do not touch exposed metal parts or unused terminals.
- Use protective gloves near high current or voltage circuits.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Probe Description

1. Current Sensing Jaws
2. Jaw Trigger
3. 1200A-200A-20A range switch
4. Signal output plug (+, red)
5. Signal output plug (-, black)
6. DCV power plug

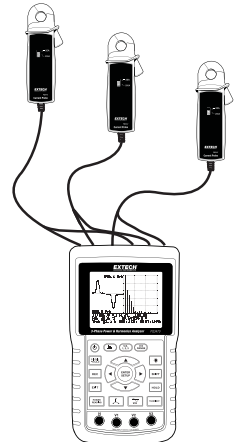


Operation

1. Connect the "A1" signal output cables to the matching input sockets on the top of the analyzer.
2. Connect the "A1" power cable to the matching power socket on the top of the analyzer.
3. Set the "200A-20A" range switch to the range appropriate for the application.

Note: Make sure the range set on the clamp matches the range set in the analyzer.

4. Connect the "A2" and "A3" clamps as above, if needed.
5. Press the "Trigger" to open the jaws and clamp around a single conductor.
6. Power on the power analyzer



Specifications

Measurement ranges	20A and 200A, switch selectable
Output sensitivity	10mV/A (20A range) 1mV/A (200A range)
Output coupling	AC coupled.
Accuracy (50/60Hz)	$\pm 1\%$ F.S. @ $23 \pm 5^{\circ}\text{C}$ (50/60Hz)
Frequency range	45 to 400 Hz.
Phase error (50/60Hz)	$< \pm 1^{\circ}$ (50/60Hz)
Minimum load	100 K ohm for specified accuracy
Enclosure material	UL 94-V0 rated
Safety	IEC 1010, Category III 600V
Power Supply	8V \pm 1V (supplied from meter)
Max. Jaw Open Size	19 mm (0.75 inch) Dia.
Operating Temperature	0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$)
Operating Humidity	Less than 80% RH
Dimension	179.9 x 66.9 x 40.1mm. (7.0 X 2.6 X 1.57"inch)
Cable length :	4 meters (13.1 feet)
DC plug size :	5.5 mm x 2.5 mm DIA.
Weight	330 g (0.73lb)

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