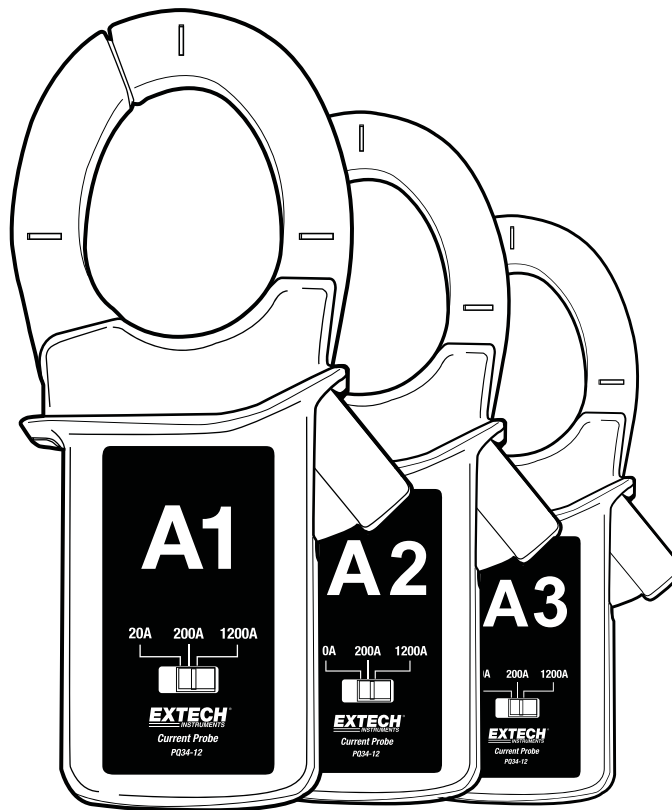


User's Guide

**EXTECH**<sup>®</sup>  
INSTRUMENTS  
A FLIR COMPANY

## 1200A Current Probe Set

Model PQ34-12



## ***Introduction***

---

Congratulations on your purchase of this Extech Current Probe Set. A set of three 1200A 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



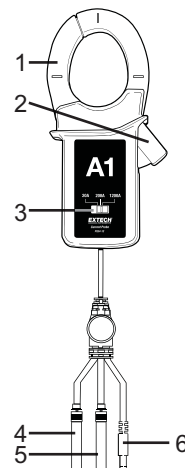
Double insulation

## **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

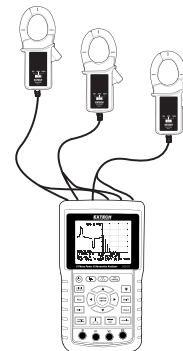


## Operation

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 "1200A-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, 200A and 1200A, switch selectable                                                                                                                                             |
| Output sensitivity    | 10mV/A on the 20A range<br>1mV/A on the 200A range<br>0.1mV/A on the 1200A range                                                                                                   |
| Output coupling       | AC coupled.                                                                                                                                                                        |
| Accuracy (50/60Hz)    | ± 1% F.S. @ 23 ± 5°C                                                                                                                                                               |
| Frequency range       | 45 to 400 Hz.                                                                                                                                                                      |
| Phase error (50/60Hz) | < ± 1°                                                                                                                                                                             |
| Minimum load          | 100 K ohm for specified accuracy                                                                                                                                                   |
| Enclosure material    | UL 94-V0 rated                                                                                                                                                                     |
| Safety                | IEC 1010, Category III 600V                                                                                                                                                        |
| Power Supply          | 8V± 1V (supplied from meter)                                                                                                                                                       |
| Max. Jaw Open Size    | 50 mm (2.0 inch) Dia.                                                                                                                                                              |
| Operating Temperature | 0°C to 50°C (32°F to 122°F)                                                                                                                                                        |
| Operating Humidity    | Less than 80% RH                                                                                                                                                                   |
| Dimension             | 210 x 64 x 33 mm. (8.3 X 2.5 X 1.3"inch )                                                                                                                                          |
| Cable length :        | 4 meters (13.17 feet)                                                                                                                                                              |
| DC plug size :        | 5.5 mm x 2.5 mm DIA.                                                                                                                                                               |
| Weight                | 490 g (1.08 LB)                                                                                                                                                                    |
| Safety                | For indoor use and in accordance with the requirements for indoor use, double insulation to IEC1010-1 (2001): EN61010-1 (2001) Overvoltage Category III 600V,, Pollution Degree 2. |

[www.extech.com](http://www.extech.com)