










## SYMBOLS

	May be used on HAZARDOUS LIVE conductors.
	Product is protected by double insulation.
	Risk of Danger. Important information. See Users Manual.
	Risk of Electric Shock.
	Complies with relevant European standards.
	Earth ground
	Battery

## UNPACKING

The following items should be included in the box of your Current Probe:

- AC/DC Current Probe 90i-610s
- Instruction sheet (This document)
- 9V Battery, Type IEC 6LR61
- BNC-to-Banana Adapter PM9081/001

Check the contents of the shipping box for completeness. If something in the box has been damaged or is missing, contact your distributor immediately.

## INSTALLING THE BATTERY



**WARNING**

To avoid electrical shock, unclamp the Current Probe from any conductor, and disconnect the Probe's BNC connector from the Test Tool or any other measurement tool before installing or replacing the battery.

Refer to Figure 1 and proceed as follows:

- Put the Current Probe in the OFF position.
- The battery cover is present in the bottom side of the Probe body. Loosen the screw in the battery cover with a small crossheaded screwdriver.
- Slide the battery cover away from the Current Probe.
- Install the 9V battery (IEC 6LR61). Arrange the battery leads so that they will not be pinched between Probe body and the battery cover.
- Reinstall the battery cover and secure the screw.

## SPECIFICATIONS

All Electrical Specifications are valid at a temperature of 23 °C ± 5 °C (73 °F ± 9 °F).

**Current Ranges:** 0 to 100 A DC or AC peak, 0 to 600 A DC or AC peak.

**Output Signals:** 100 A range: 10 mV/A / 600 A range: 1 mV/A

### Measurement Category Ratings:

300 V CAT III & 600 V CAT II, pollution degree 2 per EN 61010-1 & EN 61010-02-032.

Complies with American industry standards UL61010B-1 & UL61010B-2-032, and European standards EN/IEC 61010-1 2<sup>nd</sup> Edition & EN/IEC 61010-02-032.

## Accuracy:

Input Current Error (DC or AC peak)	Error (after zero check)	
	10 mV/A	1 mV/A
0 to 100 A	±2 % of reading ±1 A	±3.5 % of reading ±3 A
100 to 400 A	--	±2.0 % of reading ±2 A
400 to 600 A	--	±3.0 % of reading ±2 A

**Maximum Nondestructive Current:** 800 A peak

**Input Load Impedance (of host instrument):** >1 MΩ in parallel with up to 100 pF

**Useful Bandwidth:** DC and 40 to 400 Hz.

**Dimensions:** 73 x 215 x 27 mm (2.9 x 8.4 x 1.1 inches)

**Weight:** 400 g (14 oz.), battery included

**Temperature:** operating: 0 to 50 °C (32 to 122 °F), max humidity 75%; nonoperating: -20 to 60 °C (-4 to 140 °F), max humidity 80%

**Altitude:** operating: 0 to 2000 meters (0 to 6500 feet); nonoperating: 0 to 12000 meters (0 to 40000 feet)

**Temperature Coefficient:**

0.2 \* accuracy/ °C max. for temperature T<18 °C and T>28 °C (T<64 °F and T>82 °F)

**Battery Life:** With Alkaline IEC 6LR61, 60 hours typical, 40 hours minimum.

## POWER AND DEMAGNETIZING

During normal operation the green ON-indicator flashes; the red LOW-indicator is on when battery voltage is low.



**WARNING**

To avoid false readings which could cause injury, replace battery as soon as the red Low Battery Indicator LED lights.

Auto power off automatically switches the Probe off after 30 minutes.

To Demagnetize the Probe, open and close the jaws several times.

## CLEANING AND STORAGE

Periodically wipe the case with a damp cloth and detergent; do not use abrasives or solvents. Open the jaws and wipe the magnetic pole pieces with a lightly oiled cloth. Do not allow rust or corrosion to form on the magnetic core ends. Remove the battery if the Probe is not used for periods of longer than 60 days.

## MEASUREMENT INSTRUCTIONS

Refer to Figure 2 and proceed as follows:

- Connect the Current Probe to Input A or the volts and COM inputs of the Test Tool. If necessary use the PM9081 adapter that is supplied with the Probe: for correct polarity, the red leg of the adapter must be inserted into Input A or volts input and the black into COM.
- On the Current Probe: select range. Ensure that the green ON-indicator flashes; the red LOW-indicator must be off.
- Adjust the Test Tool to current readout at a sensitivity of 10 mV/A or 1 mV/A and current AC + DC measurement. For the proper settings see the user documentation of the Test Tool.
- Zero the Probe, especially after you have selected another measurement range.
- Clamp the Current Probe around the conductor. The + and - indications marked on the jaw of the Probe must correspond with the orientation of the current to be measured. This assures a correct reading of the current flow.
- Observe the current value and the shape of the waveform on the display of the Test Tool.