

# ELECTRICAL TESTER

PCE-MO 3001



- » Resolution of up to  $1\mu\Omega$
- » Internal temperature surveillance
- » Large LCD
- » USB-interface
- » Robust plastic case
- » Internal accumulator

The ohm meter PCE-MO 3001 is made to measure smallest electrical resistances. It uses four test cables that can be connected to the ohm meter. The ohm meter uses two test cables and a constant current source to allow stable current to flow within the measured device. The other two test cables measure the voltage drop. Due to the fact that this ohm meter is able to measure six different measurement ranges with three different measured currents, the user has the chance to observe a wide range of current.

The ohm meter is mostly used in those fields where resistance need to be estimated. Because of the measured current which can be set up to 1 A, also the smallest resistances can be measured. The wide LCD and large buttons of this ohm meter allow a comfortable use.

## Specification

| Resistance      |                        |
|-----------------|------------------------|
| Measuring range | 0 ... 2 mΩ             |
| Resolution      | 1 μΩ                   |
| Accuracy        | ±(5 % of Rd +5 digits) |
| Resistance      |                        |
| Measuring range | 0 ... 200 mΩ           |
| Resolution      | 10 μΩ                  |
| Accuracy        | ±(4% v.Mw. +4 Digits)  |
| Resistance      |                        |
| Measuring range | 0 ... 200 mΩ           |
| Resolution      | 100 μΩ                 |
| Accuracy        | ±(4% v.Mw. +4 Digits)  |
| Resistance      |                        |
| Measuring range | 0 ... 2000 mΩ          |
| Resolution      | 1 mΩ                   |
| Accuracy        | ±(3% v-Mw. +4 Digits)  |
| Resistance      |                        |
| Measuring range | 0 Ω ... 20000 mΩ       |
| Resolution      | 10 mΩ                  |
| Accuracy        | ±(2% v.Mw. +4 Digits)  |
| Resistance      |                        |
| Measuring range | 0 Ω ... 200 mΩ         |
| Resolution      | 100 mΩ                 |
| Accuracy        | ±(2% v.Mw. +4 Digits)  |

| General technical data    |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Display type              | LCD                                                                                                                              |
| Standard(s)               | EN 61010-1                                                                                                                       |
| Response time             | 1 s                                                                                                                              |
| Housing                   | ABS (acrylonitrile-butadiene-styrene copolymers)                                                                                 |
| Measuring method          | 4-wire method for mΩ measurement, 3- Ladder method, 2- Ladder method                                                             |
| Test current              | 10 mA: 200 Ω<br>100 mA: 20 Ω / 2 Ω<br>1 A: 200 mΩ / 20 mΩ / 2 mΩ<br>Accuracy:<br>10 mA: ± 1.5%<br>100 mA: ± 2.0%<br>1 A: ± 3.0 % |
| Fuse(s)                   | Current: 2A / 250V, voltage: 500mA / 250V                                                                                        |
| Menu language             | English, English (GB)                                                                                                            |
| Protection class (device) | IP20                                                                                                                             |
| Power supply              | 12 V 2.3 Ah                                                                                                                      |
| Connector type            | Schuko plug                                                                                                                      |
| Operating conditions      | -15 ... 55 °C , 0 ... 80 % RH                                                                                                    |
| Storage conditions        | -20 ... 70 °C , 0 ... 80 % RH                                                                                                    |
| Dimensions ( L x W x H )  | 330 x 260 x 160 mm                                                                                                               |
| Weight                    | 3800 g                                                                                                                           |