

# Portable Digital Milliohmmeter Model DO4000



The series 4000 digital ohmmeters offer true portability without any sacrifice to accuracy or functionality. These ruggedly constructed instruments are housed in a stylish plastic case with an easy to use keyboard, the measured values are displayed in a large LCD screen. Automatic or manual range selection is available and many advanced measurement features are included, Long scale length 4000 count, auto average of forward and reverse current measurement; true zero of measured value and temperature compensation (model 4001). Rechargeable batteries with automatic power off ensures the best possible battery performance.

The model 4001 not only has automatic temperature compensation but will also measure and display temperature over the range  $-50...+850^{\circ}\text{C}$ .

- ✓ True 4 terminal measurement eliminates lead resistance errors
- ✓ Wide measuring range  
40m $\Omega$ ...4k $\Omega$ , 10  $\mu\Omega$  resolution on lowest range
- ✓ Auto/manual range selection
- ✓ Enhanced accuracy with Auto average of forward and reverse measurements
- ✓ True zero button
- ✓ Digital calibration
- ✓ Automatic temperature compensation (model 4001)
- ✓ Displays resistance and temperature  $-50...+800^{\circ}\text{C}$  (model 4001)
- ✓ Rechargeable battery operation
- ✓ Auto power off to maximise battery life

## CROPICO

Precision measurement solutions since 1952

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# DO4000

## Technical Specification

Range	Resolution	Typical current	Uncertainty @ 20°C ± 5°C 1 year	Temperature Coefficient /°C
4 kΩ	1 Ω	100 μA	± (0.05% Rdg + 0.02% FS)	30ppm Rdg + 1 ppm FS
400 Ω	100 mΩ	1 mA	± (0.05% Rdg + 0.02% FS)	30ppm Rdg + 1 ppm FS
40 Ω	10 mΩ	10 mA	± (0.05% Rdg + 0.02% FS)	30ppm Rdg + 1 ppm FS
4 Ω	1 mΩ	10 mA	± (0.05% Rdg + 0.03% FS)	30ppm Rdg + 4 ppm FS
400 mΩ	100 μΩ	10 mA	± (0.05% Rdg + 0.05% FS)	30ppm Rdg + 25 ppm FS
40 mΩ	10 μΩ	100 mA	± (0.05% Rdg + 0.1% FS)	30ppm Rdg + 25 ppm FS

**Display:** 15mm LCD 4000 count with automatic decimal point and polarity indication

**Ranges:** 6 ranges, with manual or automatic range selection. LED indication of measurement units.

**AVERAGE:** Automatic average and display of measurement with forward and reverse current.

**ZERO:** Zero button to null measurement offsets

**CALIBRATION:** Digital pass code protected

**PROTECTION:** 415Vrms maximum at terminals will blow internal protection fuse

**BATTERY:** Removable battery pack with 5 1.5Volt non-rechargeable batteries. Separate rechargeable battery pack, charger and docking station are available options.

### Additional Optional Accessories



**4000-01 Rechargeable Batteries**  
Includes rechargeable NiMh batteries, charger, and docking station, also



**CB02 Carrying case**  
for DO4000 with shoulder strap and lead pouch.

**TERMINALS:** 4mm safety sockets

**WORKING TEMPERATURE:** 0...40°C rel. humidity 80% max. non condensing

**Storage Temperature:** -20...+50°C

**SAFETY:** EN61010-1 EMC-EN61326

**DIMENSIONS:** 215 x 130 x 55mm (H W D)

**MASS:** 0.8kg

**ACCESSORIES:** Supplied complete with non-rechargeable battery pack, measuring leads with Kelvin clips operating instructions and calibration certificate.

### ADDITIONAL FEATURES AVAILABLE ON MODEL 4001

**TEMPERATURE COMPENSATION :** Automatic temperature compensation with coefficients for copper, brass plus user coefficients.

Range	Resolution	Uncertainty
-200...+850 °C	0.1 °C	± (0.05% Rdg + 0.02% FS)



### Additional Lead sets

**LS03-P** large Kelvin clips 3 metre leads

**LS04-P** Large Kelvin clips 3 and 15 metre leads



**HS01-P** Duplex Handspikes 3 meter leads



### MTS2 Calibration Standard

A switch standard with all values required to calibrate the DO4000

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