

# DO4000 SERIES

**HAND HELD, GENERAL PURPOSE, PORTABLE  
DIGITAL MICRO OHMMETERS COMBINING ALL THE  
FEATURES YOU MIGHT NEED**

The series D04000 digital micro ohmmeters offer true portability without any sacrifice to accuracy or functionality. These ruggedly constructed instruments are housed in a stylish plastic case with easy to use keyboard. The measured values are displayed on a large LCD screen which allows for ease of viewing.

Automatic or manual range selection is available and many advanced features are included. The table below will help with your selection needs as there are 3 models in the range.

KEY FEATURE	DO4000	DO4001	DO4002
True 4 terminal measurement eliminates lead resistance errors	■	■	■
Measuring range from 4 milli ohm to 4 kilo ohm	■	■	
Measuring range from 4 milli ohm to 400 ohm			■
10 micro ohm resolution	■	■	
1 micro ohm resolution			■
True zero capabilities	■	■	■
Digital Calibration	■	■	■
Auto / Manual range selection	■	■	■
Automatic temperature compensation		■	
Temperature measuring range -50 to +800 °C		■	
Open circuit lead warning LED	■	■	■
100mA measuring current	■	■	
1A measuring current			■
Auto power off to maximise battery life	■	■	■
MEIGaN Compliant			■



## DO4000/DO4001 SPECIFICATIONS

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

## DO4002 SPECIFICATIONS

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

### Measurement

4 terminal Kelvin/Thomson principle eliminates errors due to lead resistance

### Display

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

### Ranges

6 automatic or manual selection with LED indication

### Terminals

4mm safety sockets

### Working Temperature

0°C to +40°C rel. humidity 80% max. non-condensing

### Storage Temperature

-20°C to +50°C

### Safety

EN 61010-1 EMC-EN 61236

### Dimensions

215mm x 130mm x 55mm (W H D) approx  
467mm x 374mm x 216mm packed in carton

### Mass

0.8kg approx

### Zero

Button to null measurement offsets

### Protection

415 Vrms maximum at the measuring terminals will blow internal protection fuse

### Calibration

Digital security code protected

### Battery

Removable pack with 5 1.5V non-rechargeable batteries. Separate rechargeable pack, charger and docking station as optional extras

CODE	ITEM	DO4000 SERIES OPTIONS
4000-01	Rechargeable battery pack includes battery cassette with rechargeable batteries. Docking station also acts as bench stand and charger	
4000-02	Replaceable battery holder with non-rechargeable batteries	
4000-03	Replaceable battery holder with rechargeable batteries	
CB02	Carrying bag with shoulder strap and lead pouch that has a clear front panel to enable full operation	
HS01-P	2 x Duplex handspike with 3 metre lead length	
HS02-P	Duplex handspikes with 3 and 15 metre lead length	
LS03-P	Lead set with 3 metre leads terminated in large Kelvin clips type KC3	
LS04-P	Lead set with 3 metres and 15 metres lead length terminated in large Kelvin clips type KC3	
LS05	Lead set with 4 x 1 metre leads terminated in banana plugs, 4 x crocodile clips, 4 x test probes and 2 x Kelvin clips type KC1	
LS06-P	Lead set with 1 metre leads terminated in miniature Kelvin clips type KC2	
MTS2	Calibration standard	