

Portable Digital Microhmmeter Model DO7



The DO7 is a very rugged yet compact and portable digital microhmmeter for the measurement of low resistance. Using a rechargeable sealed lead acid battery with built-in charger the DO7 is capable of measuring with a current of 10Amps on the lowest range.

The DO7 has been designed with the latest solid state and microprocessor techniques to ensure the very best in measurement, reliability and features. Forward and reverse current measurements with auto average and a remote start socket are all included, as well as printer output.

Typical Applications

Rotating Machines	Earth Bonding
Switch contacts	Small transformer windings
Electrical connectors	Heating Elements
Crimped Joints	Quality of wrapped joints
PCB Track	Quality of solder joints
Cable Joints	Cable lengths

- ✓ True 4 terminal measurement eliminates lead resistance errors
- ✓ 10 amp measuring current
- ✓ Rechargeable batteries with built-in charger
- ✓ Measuring range 600 $\mu\Omega$...60 Ω
- ✓ Resolution 0.1 $\mu\Omega$ on 600 $\mu\Omega$ range
- ✓ 0.8" LED display daylight viewable
- ✓ Auto average of forward and reverse measurement
- ✓ Remote start socket
- ✓ All solid state design
- ✓ Wide range of leads and accessories available
- ✓ RS232 printer output

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Precision measurement solutions since 1952

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DO7

Technical Specification

Range	Resltn.	Typical Current	Uncertainty 0°C ±5°C, 1 year	Temperature Coefficient /°C
60Ω	10mΩ	1mA	±(0.15%Rdg. + 0.05% FS)	40ppm Rdg +30ppm FS
6Ω	1mΩ	10mA	±(0.15%Rdg. + 0.05% FS)	40ppm Rdg +30ppm FS
600mΩ	100μΩ	100mA	±(0.15%Rdg. + 0.05% FS)	40ppm Rdg +30ppm FS
60mΩ	10μΩ	1A	±(0.15%Rdg. + 0.05% FS)	40ppm Rdg +30ppm FS
6mΩ	1μΩ	10A	±(0.2%Rdg. + 0.1% FS)	40ppm Rdg +30ppm FS
600μΩ	0.1μΩ	10A	±(0.2%Rdg. + 0.2% FS)	40ppm Rdg +250ppm FS

Measurement: 4 Terminal Kelvin/Thompson principle eliminates errors due to lead resistance. Open circuit measurement voltage =2V dc

Display: 0.8" LED 6000 count with automatic decimal point and polarity indication

Ranges: 6 push button selected with LED indication

Terminals: 6mm binding posts accept spade tags and 4mm banana plugs.

Working Temp: 0...40°C rel. humidity 80% max. non-condensing

Storage Temp: -20...+50°C

Mains supply: 100/120/220/240 Volts +10% -13% 47...63Hz. max 80VA

Safety: IEC 348 Protective class 1

Dimensions: 343 x 327 x 152 mm (W D H) approx. (480 x 350 x 330 mm packed in in card carton)

Mass: 8 kg approx. (9kg packed in card carton)

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

Calibration: Digital, security key protected

Protection: 415 v rms maximum at input terminals will blow internal protection fuse.

Battery: Sealed lead acid, rechargeable cells giving a maximum of 1 hour's continuous measurement on the lowest 10Amp ranges and 20 hours on all other ranges. Internal charger with battery state indicator.

Accessories: Supplied complete with mains cord, measuring leads type LS05 with Kelvin clips, operating instructions, and calibration certificate.

Available accessories Include



MTS2 Calibration Standard
A switch standard with all values required to calibrate the DO7



Additional Lead sets

LS03 large Kelvin clips 3 metre leads
LS04 Large Kelvin clips 3 and 15 metre leads
HS01 Duplex Handspikes 3 meter leads
HS02 Duplex handspikes 3 and 15 metre leads

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