

DO7e

Rugged digital micro ohmmeter for low resistance measurement

The DO7e is a very rugged yet compact and portable digital micro ohmmeter for the measurement of low resistance. Using a rechargeable sealed lead acid battery with built-in charger, the DO7e is capable of measuring with a current of 10A on the lowest range.

The DO7e has been designed with the latest solid state and microprocessor techniques to ensure the very best in measurement, reliability and features. Automatic range selection, forward and reverse current measurements with auto average and a remote start socket are all included as well as an energy saving power down mode.

Key Features

- True 4 wire measurement eliminates lead resistance
- 6 push button ranges 6m Ω to 600 Ω
- Resolution 1 $\mu\Omega$ on 6m Ω range
- Auto ranging
- 10A measuring current on lowest range
- 0.8" LED display daylight viewable
- Input protection up to 415Vrms
- Forward and reverse current measurement
- Auto average of forward and reverse measurement
- Auto power off
- Mains/rechargeable battery operation
- Digital calibration pass code protected

Ideal For

- Aerospace
- Automotive
- Military
- Utilities; electrical, water and gas



Technical Specifications

Range	Resolution	Typical Current	Accuracy @ 20°C±5°C 1 year	Temp Coefficient/°C
600Ω	100mΩ	1mA	±(0.25% Rdg +0.05% FS)	40ppm Rdg + 30ppm FS
60Ω	10mΩ	10mA	±(0.25% Rdg +0.05% FS)	40ppm Rdg + 30ppm FS
6Ω	1mΩ	100mA	±(0.25% Rdg +0.05% FS)	40ppm Rdg + 30ppm FS
600mΩ	100μΩ	1A	±(0.25% Rdg +0.05% FS)	40ppm Rdg + 30ppm FS
60mΩ	10μΩ	1A	±(0.25% Rdg +0.05% FS)	40ppm Rdg + 30ppm FS
6mΩ	1μΩ	10A	±(0.25% Rdg +0.05% FS)	40ppm Rdg + 250ppm FS

Measurement

4 Terminal Kelvin / Thomson principle eliminates errors due to lead resistance. Open circuit measurement voltage = 2VDC

Display

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

Ranges

6 push button selected with LED indication

Terminals

Binding posts accept 6mm bare wires and 4mm banana plugs (4mm safety sockets)

Working Temperature

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

Storage Temperature

-20 to +50°C

Mains Supply

115/230V +10%-10%
47 to 63Hz 20VA

Safety

EN 61010-1

Protection

415Vrms maximum at input terminals

Calibration

Digital pass code protected

Battery

Sealed lead acid battery with built-in charger. Greater than 1000 measurements on lowest (10A range) and 20 hours on other ranges from a fully charged battery

Average

Automatic average and display of measurement with forward and reverse current

General Specifications

DO7e Optional Accessories

Code	Item	Part Number
DO7-RS	Remote start plug	190109
HS01	Duplex handspikes with 3m lead length	190082
HS01-RS	Duplex handspikes with 3m lead length with remote start button	190083
HS02	Duplex handspikes with 3 and 15m lead length	190055
HS02-RS	Duplex handspikes with 3 and 15m lead length with remote start button	190058
LS03	Lead set with 3m leads terminated in large Kelvin clips type KC3	190042
LS04	Lead set with 3 and 15m lead length terminated in large Kelvin clips type KC3	190046
MTS2	Calibration standard	930241
CH01	Kelvin test probe (set of 2)	930108

Dimensions

343 x 327 x 152mm /
13.5 x 12.9 x 6" (w x d x h) approx

Mass

6kg/13lbs approx

Services

1 year warranty (subject to product registration with Seaward.
Visit www.seaward.co.uk/register-product)

Service and calibration by Calibrationhouse.

Go to www.calibrationhouse.com for more information

Part Number

930113



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.