

# RUGGED DIGITAL MICROHMMETER 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 10 Amps 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.



# **DO7E SPECIFICATIONS**

Range	Resolution	Typical Current	Accuracy at 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 = 2V dc

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

# **Storage Temperature**

-20 to +50°C

# **Mains Supply**

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

#### Safety

EN 61010-1 EMC - EN 61236

# **Dimensions**

343mm x 327mm x 152mm (W D H) approx

# Mass

6kg approx

# **Protection**

415 Vrms 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

CODE +	DO7E OPTIONS			
CB03	Lead bag attaches to lid of DO7e must be ordered with DO7e			
D07-RS	Remote start plug			
FS01	Remote start foot switch			
HS01	Duplex handspikes with 3 metre lead length			
HS01-RS	Duplex handspikes with 3 metre lead length with remote start button suitable for DO7 and DO7e			
HS02	Duplex handspikes with 3 and 15 metre lead length			
HS02-RS	Duplex handspikes with 3 and 15 metre lead length with remote start button			
LS03	Lead set with 3 metre leads terminated in large Kelvin clips type KC3			
LS04	Lead set with 3 metres and 15 metres lead length terminated in large Kelvin clips type KC3			
MTS2	Calibration standard			
CHO1	Concentric handspikes			

Cosinus Messtechnik GmbH Rotwandweg 4 D-82024 Taufkirchen Tel 089-665594-0 Fax 089-665594-30

e-Mail: office@cosinus.de Internet: www.cosinus.de

