

# Portable Microhmmeter DO7010



The DO7010 is a very rugged and very compact, portable digital ohmmeter for the measurement of low resistance. Using rechargeable and replaceable NiMH batteries with external charger the D7010 is capable of measuring with a current of 1 and 10Amps on all except the highest range.

The DO7010 has been designed with the latest solid state and microprocessor techniques to ensure the very best in measurement reliability and features. The LCD graphic display panel gives full information regarding the measurement configuration, and a single measurement start button ensures that the operation is simple and easy to use. The measurement may be triggered when the measurement leads are applied to the device under test ensuring fast single person operation.

A remote hand terminal is also available which will fully control the DO7010 at a distance of up to 15 metres. The data logging function also permits test sequences to be downloaded from an XL spreadsheet and the measured results uploaded back to the spreadsheet.

- ✓ True 4 terminal measurement eliminates lead resistance errors
- ✓ 10 amp measuring current
- ✓ Switchable current levels on each range
- ✓ Rechargeable batteries with replaceable battery pack
- ✓ Measuring range 600 $\mu\Omega$ ...6 $\Omega$
- ✓ Resolution 0.1  $\mu\Omega$  on 600 $\mu\Omega$  range
- ✓ Manual / Auto range
- ✓ Can be set to measure on contact
- ✓ Graphic display module
- ✓ Auto average of forward and reverse measurement
- ✓ Light Weight 4kg and small size
- ✓ Built in Test Resistor
- ✓ Sequence testing with memory for 1000 readings
- ✓ All solid state design

## CROPICO

Precision measurement solutions since 1952

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# DO7010

## Technical Specification

Range	Resolution	Current	Uncertainty @20°C±5°C, 1 year	Temperature Coefficient / °C
6Ω	1mΩ	100mA / 1A	±(0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS
600mΩ	100μΩ	1A / 10A	±(0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS
60mΩ	10μΩ	1A / 10A	±(0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS
6mΩ	1μΩ	1A / 10A	±(0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS

**Measurement:** 4 Terminal Kelvin/Thomson principle eliminates error due to lead resistance. Open circuit measurement voltage =5Vdc

**Display:** 240 x 64 dot graphics LCD with backlight

**Ranges:** 4 ranges with auto range mode. Two selectable measuring currents for each range.

**Data Logging:** The DO7010 has data logging modes. The first will store each reading with record number date and time. The second is a sequence mode which will store values with operator ID, serial number etc.

**Batteries:** The DO7010 is supplied with battery fitted. The batteries are NiMh and the charger is external. The battery pack may be removed from the front panel when discharged and a replacement charged pack inserted. This ensures minimum down-time when making measurements.

### Available accessories include



#### MTS3 Calibration Standard

A switch standard with all values required to calibrate the DO710

**Terminals:** The measurement leads are connected via Jaeger connectors and a full range of lead configurations are available.

**Working temp:** 0°C...+50°C rel. humidity up to 80% non condensing

**Storage Temp:** -20°C...+50°C

**Safety:** Conforms to EN 61010-1, Main instrument Class 111 (SELV), Battery pack Class 111 (SELV), External mains charger Class 11

**Mass:** 4 kg

**Size:** 390 x 160 x 270mm (WHD)

**Accessories:** Wide ranges of accessories are available to further enhance the DO7010.

### Remote Terminal:



The remote terminal emulates the DO7010 front panel and all functions and readings are fully controllable up to 15 meters from the ohmmeter.

Connection is made through the RS232 terminal

### Additional Lead sets



**LS03-7010** large Kelvin clips 3 metre leads

**LS04-7010** Large Kelvin clips 3 and 15 metre leads



**HS01-7010** Duplex Handspikes 3 metre leads

**HS02-7010** Duplex handspikes 3 and 15 metre leads

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