



High Resistance Decades OCM 109R

- ✓ 4 Decades
- ✓ 1 MΩ - 12 GΩ
- ✓ Up to 5kV
- ✓ RS 232 Data Port
- ✓ Battery powered



OCM-109R is a precise four digit high value resistance decade for testing and calibration of Megaohm-Meters and Testers for isolation resistances. It can also be used

for testing and measuring of input impedances of signal conditioners and other applications in which resistance values of up to 12 GΩ are required. The maximum applied voltage is 5kV.

High voltage and high stability resistors are used in order to achieve best possible accuracy. The switching is performed with relay of high isolation resistivity between the contacts. The relays are assembled on special printed circuit boards.

The operation is very simple. The setting of the required resistance can be done with four decade switches at the front or remotely via RS232. The incorporated LEDs indicate the maximum voltage which can be applied at each setting. The decade is supplied from an internal rechargeable battery.

SPECIFICATIONS

Ranges: 1 MΩ to 12.221 GΩ
 Voltage: 5kV DC, terminals H - L, H - GUARD, L - GUARD
 Terminals: Two terminals of type ERTALYTE
 Data Port: RS 232
 Supply: 12V internal rechargeable battery with a charger 100-240V, 50-60Hz
 Environment: 23 °C ± 5°C, 10 - 50% r.h.
 Cabinet: Aluminum case
 Dimensions: 325 x 111 x 316 mm
 Weight : 4 kg

Relay - Isolation Resistance: > 10¹⁵ Ω
 Skin resistivity of ERTALYTE: > 10¹⁶ Ω
 Specific resistivity of ERTALYTE: > 10¹⁶ Ω

Decade	Accuracy (%)	Voltage Coefficient (± ppm / V)	Tempco (± ppm / °C)	Max. Voltage (V DC / RMS)
1 MΩ - 11 MΩ	0.1	1	< 100	1000 / 700
10 MΩ - 110 MΩ	0.2	1	< 100	2500 / 1700
100 MΩ - 1,1 MΩ	0.5	2	< 100	5000 / 3500
1GΩ - 12 GΩ	1.0	2	< 100	5000 / 3500