



# High Resistance Decade OCM 109R

- ✓ 4 Decades resolution
- ✓ 1 M $\Omega$  - 12 G $\Omega$
- ✓ Applied Voltage up to 5kV
- ✓ Manual Dials Setting
- ✓ Setting via RS 232 Data Port
- ✓ Internal Battery supply



**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 G $\Omega$  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 at 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 internal rechargeable battery.

## SPECIFICATIONS

Ranges: 1 M $\Omega$  to 12.221 G $\Omega$   
 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  $\pm$  5°C, 10 - 50% r.h.  
 Cabinet: Aluminum case  
 Dimensions: 325 x 111 x 316 mm  
 Weight: 4 kg

Relay - Isolation Resistance: > 10<sup>15</sup>  $\Omega$   
 Skin resistivity of ERTALYTE: > 10<sup>16</sup>  $\Omega$   
 Specific resistivity of ERTALYTE: > 10<sup>16</sup>  $\Omega$

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