

RTD Simulator and Resistance Decades OCM-602 and OCM-602A



- ✓ Direct Resistance selection from 100 mΩ to 10 MΩ
- ✓ Resolution 0.00001 Ω
- ✓ Direct Temperature selection for Pt and Ni Sensors
- ✓ Resistor Accuracy ± 0.02 °C
- ✓ Temperature Coefficient < 25ppm/K
- ✓ Power dissipation 2W, 120V, 0.6A
- ✓ Selection with Keyboard or RS 232 or IEEE488
- ✓ Low Resistance Simulation
- ✓ Calibration of Instruments, Controllers, Regulators...

OCM-602 and OCM.602A are high accuracy and high stability resistance decades. They are designed as a temperature simulator as well as programmable resistance decades.

In the temperature mode the instruments simulate RTD Sensors within a range from -200 °C to +850 °C. Thermometers Pt-10 to Pt-20000 and Ni-10 to Ni-20000 can be selected. The required temperature value is entered with the keyboard or via the data port. The corresponding resistance is available at 2, 3 or 4 output terminals.

In the variable resistance mode the instrument permits a direct selection of resistance in a range from 0.1 Ω to

10 MΩ. The resolution depends on the resistance value selected. The highest resolution is 0.00001Ω. The selected resistor is available at 2 or 4 output terminals.

A Soft Manager for Windows at a diskette is suitable for communication via RS232 or IEEE488 Data Bus. It permits the selection of the sensor type, adjusting of the temperature or the resistance from a PC or from a supervising controller. An LCD display informs about the selected parameters and the control status.

OCM-602 is supplied from internal rechargeable battery. The mains charger is enclosed to the shipment.

SPECIFICATIONS

Resistance Ranges:	Model OCM-602: 10 Ω - 300 k Ω Model OCM-602A: 100 m Ω - 10 M Ω
Max. Power Dissipation:	2W, 0.6°, 120VDC or 50VAC
Temperature Settings:	Pt: -200.000 ... 850.000 °C (-328 ... 1562 °F) Ni: -60.000 ... 300.000 °C (-76 ... 572 °F)
RTD Simulation:	Pt-100 ... Pt-1000, Ni-100 ... Ni-1000 Model OC-602 Pt-10 ... Pt-20000, Ni-10 ... Ni-20000 Model OC-602A
Temperature Norms:	PTS 68, IST 90
Pt - Sensors:	DIN (1,385), US (1,392)
Ni - Sensors:	DIN 43760 (6 180)
Temperature Ranges:	Reference Temperature: 18 ... 28 °C Operation Temperature: 5 ... 40 °C Storing Temperature: -10 ... 50 °C
Tempco:	< 25 ppm/ °C
Terminals:	2, 3 and 4 terminal outputs, gold coated
Entry:	Keyboard, RS-232 or IEEE488
Supply:	Internal rechargeable battery, 6h operation. Uninterrupted mains operation with a Battery charger 100-240V/50-60 Hz enclosed
Cabinet:	Aluminum cabinet 325 x 111 x 316 mm (W x H x D), weight 6,5 kg

OCM-602	
RANGE	ACCURACY (FROM VALUE)
10 Ω - 200 Ω	0.05 % + 15 m Ω
200 Ω - 10 k Ω	0.02 %
10 k Ω - 50 k Ω	0.05 %
50 k Ω - 100 k Ω	0.1 %
100 k Ω - 300 k Ω	0.5 %

OCM-602 A	
RANGE	ACCURACY (FROM VALUE)
0.1 Ω - 200 Ω	0.05 % + 15 m Ω
200 Ω - 2 M Ω	0.02 %
2 M Ω - 10 M Ω	0.05 %

Simulation Pt		
RANGE	Pt10 - Pt200	Pt201 - Pt10000
-200 ... 0 °C	0.02 °C	0.02 °C
0 ... 850 °C	0.03 °C	0.04 °C

Simulation Ni		
RANGE	Ni10 - Ni200	Ni201 - Ni10000
-60 ... 0 °C	0.2 °C	0.1 °C
0 ... 300 °C	0.1 °C	0.1 °C