

Milli Ohm Meter

MO 3

Technical Specifications

General Data

Measuring:	control via START-/STOP-button, timer or through RS232-interface / remote start
Reading rate:	approx. 1 reading per second within same range
Ranges:	7 ranges, auto ranging or manual ranging
Function:	controlled by buttons, RS232 interface or remote at rear side
Response time:	to rated accuracy 10 minutes
Displays:	2 LCD's with 2 rows by 20 digits each range display in scientific form (e.g. 16,55 E9 for 16,55 GOhm) LED's to indicate V _M ON! and FAULT LED's in all buttons
Indications:	limit indication by relay contact (max. 24 V/ 0,5 A) and beeper for overrun or underrun of programmable limit window; overflow or underflow indicated in display as OVERRANGE or UNDERRANGE and send via RS232
Power Supply:	230 V AC, 50 Hz (190 V AC - 260 V AC) approx. 20 VA
Fuses:	main fuse in Euro-socket 1,6 AT; Rx-Low fuse at the rear side 1,6 AT; fuse in the switching power supply 2 AT (qualified technician required)
Connectors:	for LIMIT, GND and earth pole 4 mm panel jack at the rear side SUB-D 9 pole for remote
Safety class:	Schutzklasse 1 (Germany)
Protective System:	Schutzart IP 40 (Germany)
Temperature:	operating: 15°C - 23°C - 35°C storage: -10°C to +60°C
Humidity:	max. 70 %, no condensation allowed!
Housing:	desktop case with metal hand grip
Size:	W/H/L 340 x 150 x 300 mm
Weight:	5,5 kg



Resistance Measurement

Measuring Range:	180 mΩ to 180 kΩ
Resolution at 4½-digit Display:	range 1: 10 μΩ range 7: 10 Ω
Test current:	range 1: 1,0 A range 7: 1,0 μA
Display:	2½-digit, 3½-digit, 4½-digit programmable
Method of Measuring:	2- or 4-terminal method (Kelvin method) decade constant current
Test current:	1 A in range 1 to 1 μA in range 7
Compensation and Controlling of Thermo-Voltage:	0 to +/- 20 mV allowed
Accuracy at 23 °C +/- 1K:	+/- 0,2% of input +/- 2 digit (typically 0,1%)
Temperature coefficient (15 to 30 °C):	+/- 0,1% / K
Max. Voltage over EUT:	< 4 VDC
Max. External Voltage between Source Clamps:	-24 VDC and +3 VDC
Max. External Voltage between Sense Clamps:	+/- 48 VDC
Rx connectors:	4 x 4 mm jack or 5 pol DIN connector
Fuse in the low-ohm circuit:	1,6 A MT at the rear side