

Milli Ohm Meter

MO 3

Technical Specifications

General Data

Measuring:	control via START-/STOP-button, remote or internal timer
Reading rate:	approx. 1 reading per second within same range
Ranges:	7 ranges, auto ranging or manual ranging
Function:	controlled by buttons, RS 232 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 E-3 for 16.55 mOhm) 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 RS 232
Power Supply:	100 VAC to 240 VAC, 50 Hz to 60 Hz 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:	at the rear side for LIMIT and Remote via SUB-D 9 pole as well as GND and earth pole via 4 mm panel jack
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. 50 %, no condensation allowed!
Housing:	desktop case with metal hand grip
Size in mm:	W/H/L 340 x 150 x 300
Weight:	5.5 kg

Low-Ohm (Low Resistance Measurement)

Measuring Range:	180 mΩ to 180 kΩ
Resolution at 4½-digit Display:	
range 1:	10 μΩ
range 2:	100 μΩ
range 3:	1 mΩ
range 4:	10 mΩ
range 5:	100 mΩ
range 6:	1 Ω
range 7:	10 Ω
Test current:	
range 1:	1.0 A
range 2:	100 mA
range 3:	10 mA
range 4:	1 mA
range 5:	100 μA
range 6:	10 μA
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
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:	< 5,5 VDC
Max. external voltage between source clamps:	-24 VDC and +3 VDC
Max. external voltage between sense clamps:	+/- 48 VDC
R _x 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