

TERAOHMMETER

Teraohm- & Ampere-Meter Model TO-3 | Milli- & Tera-Ohmmeter Model mTO-3

Instruments for determination of resistive properties of insulating materials by using DC methodes

- Microprocessor-controlled instruments for determining the volume resistance as well as the surface resistance of insulating materials, non-metals or other materials. Measurement of resistivity and small currents is also possible. Resistance measuring range
- 1 k Ω ... 1,5 P Ω [TO-3]
- 10 $\mu\Omega$... 180 k Ω und 0,9 k Ω ... 1,6 p Ω [mTO-3]

Features:

- Aluminum cabinet with swivel-type handle
- 2 LC Displays with 2 lines each
- 7 measuring ranges, manual/automatic change over
- START & STOP buttons to release/end test procedure
- Controlling by instrument keys or RS232 interface
- Indication of critical values by beeper or relay output
- Voltage source: sustained short circuit-proof



Milli TO3

Optional Equipment:

- Guard ring electrodes acc. DIN IEC 60093, etc.
- Concentric ring probes acc. ESD STM11.11, etc.
- Shielded cabinets, high ohm test cables
- Low ohm clamps (Kelvin type), low ohm test cables
- 4-wire Kelvin type electrodes acc. DIN EN ISO 3915



TO3

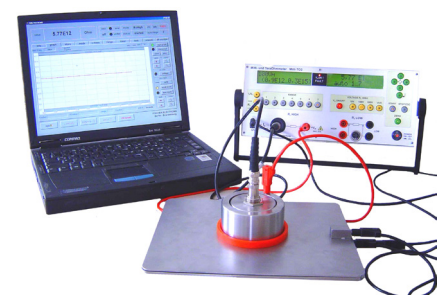
Test Standards & Regulations:

- IEC 62631-3-1:2016; IEC 62631-3-2:2015;
- EN 62631-3-1:2016; EN 62631-3-2:2016; ISO 10965;
- ASTM D 257; ANSI ESD STM11.11; DIN 53482

Options:

Protection ring electrode type SE 50

- Electrode for measurement of volume and surface resistivity according to DIN/ IEC 60093
- Inner measuring area: 1963,5 mm² (Ø 50 mm)
- Protection ring: Ø 80 mm AD, Ø 60 mm ID
- Resulting measuring gap: 5 mm
- Effective measuring area: 23,76 cm²
- Maximum measuring voltage: 500 V
- Further electrodes for measurements in the high-impedance or low-impedance range on request.



Testing setup with protection ring electrode SE50

Technical data:

	TO-3 / mTO-3
Characteristics	
Resistance measuring range (high ohm section)	0.9 k Ω ... 1,6 p Ω
Number of ranges (automatic change over)	8
Number of ranges (manual change over)	7
Test voltage [VDC]	10 / 100 / 500 & (1 ... 500)
Indication of test results (scientific notation)	4 digit (e.g. 16.55 E9 = 16.55 G Ω)
Current measuring range	0.01 pA ... 1.1 mA
Indication of test results (scientific notation)	
Additional Low Ohm Section	
	mTO-3
Resistance measuring range (low ohm section)	10 $\mu\Omega$... 180 k Ω
Number of ranges (manual / automatic change over)	7
General Electrical / Mechanical Data	
	TO-3 / mTO-3
Mains voltage [VAC]	115 / 230 , 50 / 60
Mains connection	IEC Std. Socket
Electric plug (on detachable cord)	»Schuko« Type
Degree of protection (acc. EN 60529, VDE 0470-1)	IP 40
Width [mm]	340
Height [mm]	150
Depth [mm]	300
Weight [kg]	5.5