



TERA-OHM-METER



DESIGN AND PRODUCTION OF
INSTRUMENTS AND APPARATUS
FOR QUALITY CONTROL
ON MATERIALS



These instruments are made in
compliance with CE health and
safety requirements



Teraohmmeter - code 6148.000



Scope

The Teraohmmeter covers direct-current tests for determination of a dc insulation resistance, volume resistance, volume resistivity, surface resistance, and surface resistivity of electrical insulating materials, or the corresponding conductances and conductivities. The CEAST Teraohmmeter measures the volume and/or surface resistance between 0.01 T Ω and 20.000 T Ω at predetermined voltage of 10 - 100 - 500 - 1000 V.

The chief applications are:

- testing of insulating oils
- dielectric materials (polymers - paper etc. etc.)
- determining leak resistance of cables
- testing of capacitors and valves and other equivalents.

Standards

Designed and built to meet the following standards: ISO 284, ASTM D 257, ASTM D 1169, DIN 51953, DIN 53482/VDE 0303 Teil 3, DIN 54435, BSI 2782 - 230 A, UNI 4288, CEI 15.10 and other equivalents.

Technical Description

The instrument provides a direct reading of the value of resistance of insulation. It is possible regulate preliminary full-scale. Highly insulated and screened terminals for connection to the relevant electrode are included. It is possible to measure at temperatures up to 100°C by placing the electrode in an adapted thermostatic oven.

Technical Features

The Teraohmmeter is an electro-magnetic instrument with electronic amplifier and circuit generator, transformer, AC to DC rectifier, with levelling condenser and voltage stabilizer to supply a fixed output voltage of 10 - 100 - 500 - 1000 V direct current.

Technical data			
Precision: $\pm 2\%$ of scale range	Test voltages: 10 - 100 - 500 - 1000 V DC $\pm 5\%$ selectable by switch		
Measuring limits			
Test voltage	Rmin	Rmax	Reading factor
10 V	0.01 T Ω	200 T Ω	0.1
100 V	0.1 T Ω	2000 T Ω	1
500 V	0.1 T Ω	2000 T Ω	1
1000 V	1 T Ω	20000 T Ω	10
Electrodes available according to the following standard measuring limits			
ASTM D 257	code 6138.004	ASTM D 1169	code 6138.018
ISO 284	code 6138.019	BSI 2782 - Method 320 A	code 6138.030
DIN 53482/VDE 0303 Teil 3 \varnothing 49.5 mm	code 6138.010	DIN 53482/VDE 0303 Teil 3 \varnothing 24.2 mm	code 6138.007
UNI 4288 for thermoplastics	code 6138.005	UNI 4288 for thermosetting	code 6138.006
CEI 15.10	code 6138.008		
and others on request.			

Technical Characteristics		
	Control unit	Electrode box
Overall dimensions (L x D x H) [mm]	240 x 185 x 175	240 x 230 x 260
Weight [kg]	4	5
Supply	230 V - 50/60 Hz - Singlephase (110 V on request)	
Paint	fuchsia RAL 4006 - Gray RAL 7035	

"Due to the continuous development policy of CEAST's Research and Development Department, changes may be introduced without notice"



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