### MI 3200 TeraOhm 10 kV



# Professional insulation testing with powerful diagnostics tools



#### Professional diagnostic insulation tester

TeraOhm 10 kV is a professional high voltage insulation tester with added diagnostics tools.

#### It is specially well suited for:

- power transformers
- measuring transducers in distribution networks
- testing insulation resistance of rotating machinery and cables
- production line periodic testing and maintenance
- troubleshoting and analysis of all kinds of insulation problems

Because of its robustness (CAT IV protection) it is best suited for industrial environment.

#### Main features:

- $\bullet$  Insulation resistance up to 10  $T\Omega$
- Diagnostics tools (PI, DAR, DD)
- Step voltage insulation test
- Test voltage 500 V 10 kV DC, adjustable in 25 V steps
- MAX charging current 5 mA
- Automatic discharge of capacitive loads
- Digital and bar graph results with date and time
- Optional Windows compatible PC software TeraLink
- RS232 and USB isolated communication ports
- High quality accessories including shielded test leads in standard set
- High EM interferences protection
- CAT IV, 600 V
- Mains and rechargeable battery power supply











#### **TYPICAL APPLICATION:**

- Rotating machines
- Transformers
- Cables
- High voltage generators
- Surge arrestors
- Measuring transducers

#### **STANDARDS:**

Instruments operation: IEC/EN61557-2

Electromagnetic compatibility: EN 61326 class B

Safetv:

EN 61010-1 (instrument) EN 61010-031(accessories)



## **Technical Specification**

INSULATION		
Test Voltage Range	500 - 10000 V	
Measuring range	0.12 ΜΩ - 10 ΤΩ	
Voltage steps	up to 10 kV, in steps of 25 V	
Voltage ramp test	yes	
Automatic discharge after test	yes	
Calculation of DD, DAR, PI	yes	
Step voltage test	yes, in 5 steps	
Withstanding voltage test	yes	
Timer	yes	
Leakage current measurement	yes, up to 5.5 mA	
Capacitance measurement	yes	
Short circuit / charge current	5 mA	
Guard terminal	yes	
Auto adjustment function	yes	
Audible warnings	yes	
Auto ranging	yes	
Shielded test leads included	ves	
VOLTAGE		
Voltage AC/DC	up to 600 V	
ACCURACY		
Insulation	5 % +3d (to 1 TΩ), 15 % +3d (to 10 TΩ)	
Voltage	3 % +4 V	
Capacitance	5 % +2d	
DISPLAY		
R(t) graphs plotting facility	yes	
Backlit	yes	
Graphic display	LCD	
MEMORY, SOFTWARE AND COMMUNICATION		
USB and RS232 COM ports	yes	
Memory size	128 kB	
Software	optional TeraLink PC Software	
SAFETY AND PROTECTION		
IP	44	
Safety category	CAT IV, 600 V	
POWER SUPPLY		
Rechargeable batteries	included	
In-built battery charger	yes	
Low battery indication	yes	
Battery life	4 h at 10 kV	
DIMENSIONS		
Weight	5.5 kg	
Dimensions	330 x 360 x 160 mm	



Intuitive keypad and connectivity to PC through RS 232 and USB



Dot matrix LCD and connector panel for high quality shielded test leads 12 kV (included in standard set)

#### **ORDERING INFORMATION**

MI 3200

Standard set



Instrument TeraOhm 10 kV
Mains cable
10 kV shielded test lead with tip, 2 m
10 kV shielded test lead, 2 m (black, red)
10 kV alligator (black, red)
Guard test lead 2 m with alligator clip (green)
6 x 1.2 V NiMH batteries
Handbook "Guide to modern insulation testing" on CD
Instruction manual on CD
Product verification data

#### **OPTIONAL ACCESSORIES**

Photo	Order No.	Acc. decription
	A 1275	PC SW TeraLink PRO with USB and RS232 cable
P	S 2029	10 kV shielded test lead set, 8 m (black, red)
P	S 2030	10 kV shielded test lead set, 15 m (black, red)
**	S 2036	10 kV alligator set (black, red)



**Measuring and Regulation Equipment Manufacturer** 

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