

# 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
- troubleshooting and analysis of all kinds of insulation problems

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

### Main features:

- 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

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

# Technical Specification

<b>INSULATION</b>	
Test Voltage Range	500 - 10000 V
Measuring range	0.12 M $\Omega$ - 10 T $\Omega$
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	yes
<b>VOLTAGE</b>	
Voltage AC/DC	up to 600 V
<b>ACCURACY</b>	
Insulation	5 % +3d (to 1 T $\Omega$ ), 15 % +3d (to 10 T $\Omega$ )
Voltage	3 % +4 V
Capacitance	5 % +2d
<b>DISPLAY</b>	
R(t) graphs plotting facility	yes
Backlit	yes
Graphic display	LCD
<b>MEMORY, SOFTWARE AND COMMUNICATION</b>	
USB and RS232 COM ports	yes
Memory size	128 kB
Software	optional TeraLink PC Software
<b>SAFETY AND PROTECTION</b>	
IP	44
Safety category	CAT IV, 600 V
<b>POWER SUPPLY</b>	
Rechargeable batteries	included
In-built battery charger	yes
Low battery indication	yes
Battery life	4 h at 10 kV
<b>DIMENSIONS</b>	
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. description
	A 1275	PC SW TeraLink PRO with USB and RS232 cable
	S 2029	10 kV shielded test lead set, 8 m (black, red)
	S 2030	10 kV shielded test lead set, 15 m (black, red)
	S 2036	10 kV alligator set (black, red)



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