

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 Ω
- Diagnostics tools (PI, DAR, DD)
- Step voltage insulation test
- Test voltage from 500 V up to 10 kV DC, adjustable in 25 V steps
- Maximum charging current is 5 mA
- Automatic discharge of capacitive loads
- Digital and bar graph results with date and time
- Optional PC software HVLink PRO for downloading and analyzing test results and test report printing
- 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

INSULATION	
Test Voltage Range	500 ... 10000 V
Measuring range	5 k Ω ... 10 T Ω
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 (up to 100 min)
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
VOLTAGE	
Voltage AC/DC	up to 600 V
ACCURACY	
Insulation	5% + 3d (to 1 T Ω), 15% + 3d (to 10 T Ω)
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 HVLink PC Software
SAFETY AND PROTECTION	
IP	54
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 probe, 2 m

10 kV shielded test lead, 2 m, 2 pcs (black, red)

10 kV crocodile clip, 2 pcs (black, red)

Guard test lead, green, 2 m

Crocodile clip, green

6 x 1.2 V NIMH batteries, type D

Handbook "Guide to modern insulation testing" on CD

Instruction manual on CD

Calibration certificate

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. description
	A 1275	PC SW HVLink PRO with USB and RS232 cable
	S 2029	10 kV shielded test lead, 8 m, 2 pcs (black, red)
	S 2030	10 kV shielded test lead, 15 m, 2 pcs (black, red)
	S 2036	10 kV crocodile clip, 2 pcs (black, red)



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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.