

Complete range of digital power quality measuring instruments for 1- and 3-phase electric supply systems.

- Instruments are proven tools for expert designers of filtering systems, power correction equipment, over voltage protection and UPS systems.
- Wide range of testing possibilities like: voltage sags and swells, resonant states, high neutral conductor currents in 3-phase systems, asymmetry, transients, etc.
- Automatic EN 50160 evaluation test report, including flickers.
- Simultaneous sampling on three current and three voltage input channels with sampling frequency 6400Hz.
- Internal 2MB memory for data recording.
- Measurements and recording of current, voltage, power, energy, power factor, power character, anomalies, THD, harmonic spectrum analysis with harmonics direction.
- Scope function.
- Modem communication support for remote control of the instrument.
- Windows compatible PowerLink PC evaluation software package for profound analysis. Tabular or graphic presentation of results including statistical analysis. Possible export to MS[®] Word or MS[®] Excel.
- Wide selection of standard sets and optional accessories.



**Best value for money
power quality analyser**

Power Quality Analyser-Plus

Ordering No. **MI 2292**



- **Three phase, multifunction power quality analyser with complete selection of test functions and diagnostics tools for wide range of applications.**
- **Automatic EN 50160 power quality assessment test.**
- **Flicker measurement in accordance with EN 50160.**
- **Modem communication support for remote control of the instrument.**
- **Measurements according to IEC / EN 61000-4-30.**



- Recording of short-period events like transients, inrush currents, resonant states, switchings, ...
- Harmonics direction determination.
- Optional: 110 V version.

Standard Set:

- Instrument Power Quality Analyser
- Current clamp 1000 A/1V, 3 pcs
- Small soft carrying bag for current clamps
- Test tip, red; 3 pcs
- Safety flat clamp, 4 pcs
- Alligator clip, black; 4 pcs
- Voltage measurements cables; 6 pcs
- Mains cable
- RS 232 cable
- 4 x 1,2 V NiCd batteries
- Power link PC analysis and control SW package
- Soft carrying bag
- Instruction manual
- Declaration of conformity
- Product verification data
- CD Modern Power Quality measurement techniques

- Dimensions (w x h x l): 265 x 110 x 185 mm.
- Mass (without accessories): 2 kg.



Power Quality Analyser

Ordering No. **MI 2192**



- Three phase, multifunction instrument with all functions to perform a complete measurement and diagnostics of power quality.
- Automatic EN 50160 power quality assessment test.
- Recording of short-period events like transients, inrush currents, resonant states, switchings, etc.

- Harmonics direction determination.
- Optional remote modem communication support.
- Optional: 110 V version.

Standard Set:

- Instrument Power Quality Analyser
- Current clamp 1000 A/1V, 3pcs
- Small soft carrying bag for current clamps
- Test tip, red; 3 pcs
- Alligator clip, black; 4pcs
- Voltage measurements cables; 6 pcs
- Mains cable
- RS 232 cable
- 4 x 1,2V NiCd batteries
- Power Link PC analysis and control SW package
- Soft carrying bag
- Instruction manual
- CD Modern Power Quality measurement techniques
- Declaration of conformity
- Product verification data

- Dimensions (w x h x l): 265 x 110 x 185 mm.
- Mass (without accessories): 2 kg.



Power Harmonics Analyser

Ordering No. **MI 2092**



- Three phase, multifunction power quality analyzer suitable for performing all the most frequent measurements and diagnostics in different electrical systems.
- Optional remote modem communication support.

- Optional: 110 V version.

Standard Set:

- Instrument Power Harmonics Analyser
- Current clamp 1000 A/1 V, 3pcs
- Small soft carrying bag for current clamps
- Test tip, red; 3 pcs
- Alligator clip, black; 4pcs
- Voltage measurements cables; 6 pcs
- Mains cable
- RS 232 cable
- 4 x 1,2V NiCd batteries
- Power Link PC analysis and control SW package
- Soft carrying bag
- Instruction manual
- CD Modern Power Quality measurement techniques
- Declaration of conformity
- Product verification data

- Dimensions (w x h x l): 265 x 110 x 185 mm.
- Mass (without accessories): 2 kg.



Power Simulator Set

Ordering No. **MI 2191**



- One phase, multi-purpose power simulator for simulating typical situations in low voltage power supply systems.
- Excellent tool for training and demonstration purposes.

- Simulation of transients, inrush currents, flickers, harmonics, power supply outages, etc.
- Load character adjustment, adjustable current and voltage level with 22 different faulty conditions simulation.
- Optional: 110 V version.

Standard Set:

- Instrument Power Simulator
- Short form quick guide plastic cards
- Power cord
- Current measuring cable
- Instruction manual
- CD Modern Power Quality measurement techniques
- Declaration of conformity
- Product verification data

- Dimensions (w x h x l): 265 x 110 x 185 mm.
- Mass (without accessories): 2,4 kg.

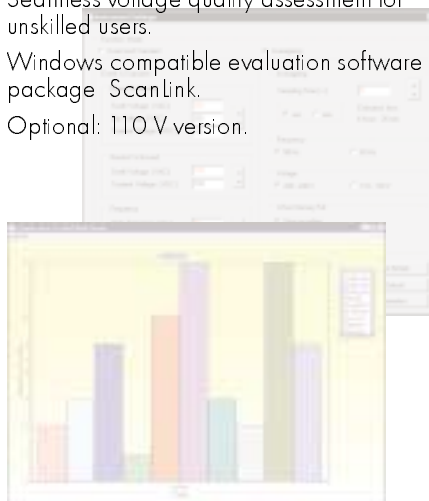


VoltScanner

Ordering No. **MI 2130**



- Recording of power supply outages and transient over voltages.
- Seamless voltage quality assessment for unskilled users.
- Windows compatible evaluation software package Scanlink.
- Optional: 110 V version.



- Dimensions (w xh xL): 100 x 50 x 200 mm.
- Mass (without accessories): 0,6 kg.

Standard Set:

- Instrument VoltScanner
- Mains measuring cable, 1,5 m
- Battery-rechargeable NiCd 1,2 V, 4 pcs
- Windows Software "Scanlink"
- RS 232 cable
- Instruction Manual
- Declaration of conformity
- Product verification data



- High performance, digital, one phase voltage recorder.
- Pre-set voltage limits for power quality assessment in accordance with EN 50160.

	Power Quality Analyser-Plus	Power Quality Analyser	Power Harmonics Analyser	VoltScanner
Ordering No.:	MI 2292	MI 2192	MI 2092	MI 2130
Main features:				
Power Quality Testing				
RMS Voltages, Currents (average, min., max.)	✓	✓	✓	✓ (only voltage)
Harmonics Analysis	✓	✓	✓	
THD	✓	✓	✓	
Power				
Active, Reactive, Apparent	✓	✓	✓	
Cos φ	✓	✓	✓	
Character, sign	✓	✓	✓	
Voltage Events (dips, sags, interruptions)	✓	✓	✓	✓
Periodic Analysis	✓	✓	✓	✓
Statistical Analysis	✓	✓	✓	✓
Anomalies (Events) Analysis	✓	✓	✓	✓
Neutral current (calculated)	✓	✓	✓	
On line monitoring				
Meiter mode - tabularic results	✓	✓	✓	
Scope mode - oscilloscope	✓	✓	✓	
Spectrum Analysis mode	✓	✓	✓	
EN 50160 compliant testing				
Fast Set Up - Auto mode	✓	✓		✓
Voltage	✓	✓	✓	✓
THD & Harmonics	✓	✓	✓	✓
Dips, Sags, Interruptions	✓	✓	✓	✓
Flicker	✓			
Frequency	✓	✓	✓	✓
Interharmonics / Signalling	✓			
Unbalance	✓	✓		
EN 50160 Test Report	✓	✓		
Special tools				
Fast logging mode	✓ (166 minutes)	✓ (8,4 minutes)		
Waveform mode	✓ (7812 periods)	✓ (390 periods)		
Transient mode	✓ (1000 periods)	✓ (50 periods)		✓
Energy				
Total & Subtotal counters	✓	✓	✓	
Other				
PC SW	✓	✓	✓	
Modem entrance key	✓	Optional	Optional	