Class A Power Quality Analyser MI 2893 Power Master XT



The MI 2893 Power Master XT is a hand-held three phase power quality analyzer with a large easy-to-read graphical color display enabling the user to detect harmonics, phasors, waveforms and transients with sampling frequency 1 MSamples/sec in the installation simply by connecting the device. The instrument is designed for a long term recording as well as for troubleshooting power quality problems in three-phase and single-phase power distribution systems. The handy Quick Set buttons makes the instrument more user friendly and are allowing faster data overview for troubleshooting. Advanced PC SW package PowerView3 enables detailed analysis of recorded data, direct and remote reading from the micro SD memory card, analysis of long term records and automatic creation of professional test report.

MEASURING FUNCTIONS

- Voltage: TRMS, peak, crest factor (4-channel);
- Current: TRMS, peak, crest factor (4-channel);
- Power (active, reactive, apparent):
- Power measurements fully compliant with IEEE 1459 (active, non active, fundamental, harmonic, load un-balance) and classic (vector or arithmetic) method;
- VFD (variable frequency drive, 5 Hz 110 Hz), 400 Hz;
- Unbalance, flicker measurement:
- Harmonic and interharmonic analysis up to 50th harmonics, THD and TDD measurements;
- Energy (active, apparent, reactive, generated, consumed);
- Capturing and recording of power supply events (shutdowns, interruptions, swells, dips);
- Inrush currents monitoring and recording;
- Waveform/inrush displaying, snapshot and recording:
- Transients with sampling frequency 1 MSamples/sec;
- Power quality analysis according to EN 50160, IEEE 519;
- Recording up to 7 adjustable alarms;
- Temperature measurement;
- Power factor, tg fi.

KEY FEATURES

- 4-voltage channels with wide measurement range;
- 4-current channels with support for automatic clamp recognition and "on instrument" range selection;
- Automatic Smart Clamp detection and Smart Clamp range selection;
- Current clamp auto range selection;
- Sampling frequency on transients recording > 1 MSamples/sec;
- Compliance with power quality standard IEC 61000-4-30 Class A;
- Complete power quality analysis according to EN 50160 including signalling and interharmonics:
- Support for microSD memory card (8-GB supplied with the instrument) up to 32GB;
- Color-coded input terminals and terminal labels to suit your application region;
- Intuitive main menu and large icons that makes the equipment very easy to navigate and configure;
- Powerful PC SW PowerView3 enables downloading, view, analysis of recorded data and professional report creation;
- Flexible clamps (without additional power supply) are included in the Euro set;
- Remote communication via Ethernet (GPS clock synchronization - optional).

APPLICATION

- · High speed transient capturing;
- Energy consumption optimization;
- Power quality assessment and troubleshooting in low and middle voltage electrical systems;
- Checking power correction equipment performance;
- Long-term analysis;
- Predictive maintenance;
- Verification of electrical system capacity before adding loads.

STANDARDS

Safety

• EN 61010-1

Measurements:

- IEC/EN 61000-4-30,Class A;
- IEC/EN 61557-12;
- IEC/EN 61000-4-7, Class I;
- IEC/EN 61000-4-15;
- EN 50160;
- IEEE 1448;
- IEEE 1459;
- IEEE 519

Electromagnetic compatibility (EMC):

• EN 61326



TECHNICAL SPECIFICATION

FUNCTION		
Voltage inputs	AC+DC	
Number of inputs	5	
Nominal voltage range		
Three phase connection	Phase (L-N): 50 1000 V RMS	
Cinale above assessible	Line (L-L): 87 1730 V	
Single phase connection	Phase (L-N): 50 500 V RMS	
Measuring range Three phase connection	10 % 150 % of nominal voltage 10 % 110 % of nominal voltage	
Single phase connection	±6 kV	
Max. transient peak voltage	IEC 61000-4-30 Class A, ±0.1% of nominal volta	ge
Accuracy	7 kSamples per second @ 50/60 Hz, synchroniza	3
Sampling rate	1.7 kSamples per second @ VFD (5 Hz - 110 Hz)	
. 3	12.2 kSamples per second @ 400 Hz	
	42,5 69,0 Hz ±10 mHz	
Mains frequency range	5 110 Hz ± 10 mHz (VFD)	
Comment to an at a	335,0 465,0 Hz ± 100 mHz	
Current inputs Number of inputs	AC+DC 4	
Measuring range:	4	
Range 1:	10.0 mVrms 300.0 mVrms ±0.25 % Urms	
Range 2:	50.0 mVrms 3.000 Vrms ±0.25 % Urms	
Current clamp accuracy:		
A 1588	50 mArms 100 Arms ±0.5 % of m.v.	
A 1281	50 mArms 1200 Arms ±0.5 % of m.v.	
A 1069	500 mArмs 200 Arмs ±1.0 % of m.v.	
A 1501 / A 1502 / A 1227 / A 1445	3 Arms 6000 Arms ±1.5 % of m.v.	
A 1503 / A 1446 Functions	6 Arms 12000 Arms ±1.5 % of m.v. Measuring range	Accuracy
Power (P, Q, S, cos ϕ , PF)	Depends on voltage and selected clamps	IEC 61557-12 Class 1
Energy	Depends on voltage and selected clamps	Active: IEC 62053-21 Class 1
		Reactive: IEC 62053-23 Class 2
Harmonics (DC 50th) @50/60 Hz	0 20% of nom. voltage	IEC 61000-4-7 Class 1
Harmonics (DC 13th) @400 Hz		
Harmonics (DC 20th) @VFD (5 - 16 Hz) Harmonics (DC 13th) @VFD (16 - 33 Hz)		
Harmonics (DC 15th) @VFD (18 - 33 Hz)		
Interharmonics (1 50th) @ 50/60 Hz	0 20% of nom. voltage	IEC 61000-4-7 Class 1
Interharmonics (1 20th) @VFD (5 - 16 Hz)		
Interharmonics (1 13th) @VFD (16 - 33 Hz)		
Interharmonics (1 5th) @VFD (33 - 110 Hz)		
Flicker Mains signalling	0.2 10 0 15% of nom. voltage	IEC 61000-4-15 Class F3 IEC 61000-4-30 Class A
Unbalance	Voltage: 0 5%	12C 01000 4 30 Class A
	Current: 0 20%	
Temperature		±0.5 °C
	-10 85 °C	
Dips, Swell	-10 85 °C 10 150% of nom. voltage	±0.2 % of nominal voltage
Dips, Swell Interrupts		
Dips, Swell Interrupts Recorders	10 150% of nom. voltage 0 10% of nom. voltage	±0.2 % of nominal voltage ±1 cycle
Dips, Swell Interrupts Recorders Memory	10 150% of nom. voltage	±0.2 % of nominal voltage ±1 cycle
Dips, Swell Interrupts Recorders Memory General recorder	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported	±0.2 % of nominal voltage ±1 cycle
Dips, Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h	±0.2 % of nominal voltage ±1 cycle ±1 cycle
Dips, Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power)	±0.2 % of nominal voltage ±1 cycle ±1 cycle
Dips, Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h	±0.2 % of nominal voltage ±1 cycle ±1 cycle
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Dips; Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt)	±0.2 % of nominal voltage ±1 cycle ±1 cycle to e per interval, including
Dips; Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients	±0.2 % of nominal voltage ±1 cycle ±1 cycle to e per interval, including
Dips; Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush	±0.2 % of nominal voltage ±1 cycle ±1 cycle to e per interval, including
Dips; Swell Interrupts Recorders Memory General recorder Integration period	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC	±0.2 % of nominal voltage ±1 cycle ±1 cycle to e per interval, including
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f	±0.2 % of nominal voltage ±1 cycle ±1 cycle to cycle
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC	±0.2 % of nominal voltage ±1 cycle ±1 cycle to cycle
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min re	±0.2 % of nominal voltage ±1 cycle ±1 cycle te per interval, including egistration period)
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min re	±0.2 % of nominal voltage ±1 cycle ±1 cycle to cycle
Diration Duration Waveform recorder Duration Trigger	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min re	±0.2 % of nominal voltage ±1 cycle ±1 cycle te per interval, including egistration period)
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min ree Up to 60 seconds duration and 30 seconds pretr Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval	±0.2 % of nominal voltage ±1 cycle ±1 cycle ue per interval, including gistration period) rigger of voltage and current waveform Up to 1500 records
Dips; Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min re Up to 60 seconds duration and 30 seconds pretr Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval	±0.2 % of nominal voltage ±1 cycle ±1 cycle ue per interval, including gistration period) rigger of voltage and current waveform Up to 1500 records
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min residents) Up to 60 seconds duration and 30 seconds pretry Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channed One cycle of voltage and current waveforms	±0.2 % of nominal voltage ±1 cycle ±1 cycle ±1 cycle get per interval, including egistration period) rigger of voltage and current waveform Up to 1500 records
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min ree) Up to 60 seconds duration and 30 seconds pretry Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channed One cycle of voltage and current waveforms Transient selection measurement between L-N,	±0.2 % of nominal voltage ±1 cycle ±1 cycle ±1 cycle get per interval, including egistration period) rigger of voltage and current waveform Up to 1500 records
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Dips; Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration Trigger General Display	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON valu - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min re Up to 60 seconds duration and 30 seconds pretr Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channe One cycle of voltage and current waveforms Transient selection measurement between L-N, Envelope and level trigger simultaneously Transient recorder runs simultaneously with ger Set & go transient setup; predefined setup (low	±0.2 % of nominal voltage ±1 cycle ±1 cycle ±1 cycle ue per interval, including (e) (e) (e) (e) (e) (e) (e) (f) (f
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration Trigger General Display Communication	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min results of the signal of the	±0.2 % of nominal voltage ±1 cycle ±1 cycle ±1 cycle ue per interval, including (e) (e) (e) (e) (e) (e) (e) (e
Dips; Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration Trigger General Display Communication Time synchronisation Power supply	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min research Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channed One cycle of voltage and current waveforms Transient selection measurement between L-N, Envelope and level trigger simultaneously Transient recorder runs simultaneously with ger Set & go transient setup; predefined setup (low 4.3 inch color TFT (480 x 272) USB, Ethernet GPS receiver (A 1355) With power supply adapter or 6 x NiMh recharge	±0.2 % of nominal voltage ±1 cycle ±1 cycle ±1 cycle ue per interval, including egistration period) rigger of voltage and current waveform Up to 1500 records els /L-GND meral and waveform recorder and high level) for current and voltage trigger
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration Trigger General Display Communication Time synchronisation Power supply	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min research Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channed One cycle of voltage and current waveforms Transient selection measurement between L-N, Envelope and level trigger simultaneously Transient recorder runs simultaneously with ger Set & go transient setup; predefined setup (low 4.3 inch color TFT (480 x 272) USB, Ethernet GPS receiver (A 1355) With power supply adapter or 6 x NiMh recharge CAT IV / 600 V	±0.2 % of nominal voltage ±1 cycle ±1 cycle ±1 cycle ue per interval, including egistration period) rigger of voltage and current waveform Up to 1500 records els /L-GND meral and waveform recorder and high level) for current and voltage trigger
Dips; Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration Trigger General Display Communication Time synchronisation Power supply Overvoltage category	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min residents) Up to 60 seconds duration and 30 seconds pretry Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channers one cycle of voltage and current waveforms Transient selection measurement between L-N, Envelope and level trigger simultaneously Transient recorder runs simultaneously with gerest & go transient setup; predefined setup (low) 4.3 inch color TFT (480 x 272) USB, Ethernet GPS receiver (A 1355) With power supply adapter or 6 x NiMh recharge CAT IV / 600 V For three phase connection CAT III / 1000 V	±0.2 % of nominal voltage ±1 cycle ±1 cycle ue per interval, including egistration period) rigger of voltage and current waveform Up to 1500 records els /L-GND meral and waveform recorder and high level) for current and voltage trigger
Dips, Swell Interrupts Recorders Memory General recorder Integration period Recorded signals Duration Waveform recorder Duration Trigger Transient recorder Sampling rate Duration Trigger General	10 150% of nom. voltage 0 10% of nom. voltage 8GB microSD, up to 32GB supported 1s 2h > 1000 (voltages, currents, harmonics, power) Minimal, maximal, average and average ON value - Voltage events (dip, swell, interupt) - Custom alarms (up to 7 programmable alarms) - Signalling (up to two selectable frequecies) - Transients - Inrush - RVC - 200 ms U/I/f > 1 year (depends on size of SD card at 10 min research Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval 1 MSamples/sec; simultaneously on all 8 channed One cycle of voltage and current waveforms Transient selection measurement between L-N, Envelope and level trigger simultaneously Transient recorder runs simultaneously with ger Set & go transient setup; predefined setup (low 4.3 inch color TFT (480 x 272) USB, Ethernet GPS receiver (A 1355) With power supply adapter or 6 x NiMh recharge CAT IV / 600 V	±0.2 % of nominal voltage ±1 cycle ±1 cycle te per interval, including rigger of voltage and current waveform Up to 1500 records rigger of voltage and current waveform Up to 1500 records rels /L-GND neral and waveform recorder and high level) for current and voltage trigger

OPTIONAL ACCESSORIES - AC FLEX CURRENT CLAMPS

Part No. A 1501 / A 1502 A 1503 A 1227 / A 1445 A 1446









Nominal range	30/300/3000A	60/600/6000A	30/300/3000A	60/600/6000A
Measurement range	3 6000 A	6 12000 A	3 6000 A	6 12000 A
Accuracy	±1%	±1%	±1%	±1%
Ø	7/14 cm	27 cm	14/19 cm	27 cm
Sensor length	25/48 cm	90 cm	48/68 cm	90 cm
Overvoltage category	CAT IV / 600V			
IP	IP 64	IP 64	IP 64	IP 64

OPTIONAL ACCESSORIES - AC IRON CURRENT CLAMPS

Part No.	A 1588	A 1069	A 1281	A 1033
			R	R
Nominal range	0.5/5/50A	10/100A	0.5/5/100/1000A	100/1000A
Measurement range	0.05 100 A	0.5 200 A	0.05 1200 A	5 1200 A
Accuracy	±0.5%	±1%	±0.5%	±2%
Jaw opening	4 cm	1.3 cm	5.2 cm	5.2 cm
Max. conductor	< 50 mm	< 50 mm	< 50 mm	< 15 mm
Overvoltage category	CAT II / 600V	CAT III / 600V	CAT III / 600V	CAT III/600V
IP.	IP 40	IP 20	IP 20	IP 20

OPTIONAL ACCESSORIES - AC/DC CURRENT CLAMPS

Part No.	A 1391 PQA	A 1717	A 1636
		R	
Nominal range	40/300 A	100/1000A	DC: 2000A AC: 1000A
Measurement range	2 300 A	3 1000 A	DC: 40 2000 A AC: 20 1000 A
Accuracy	±3%	±1%±1A	
Jaw opening	2.5 cm	5.1 cm	7.3 cm
Max. conductor	< 22 mm	< 52 mm	< 68 mm
Overvoltage category	CAT IV/600V	CAT III / 600V	CAT II / 600V
IP	IP 40	IP 40	IP 40

OPTIONAL ACCESSORIES - I/U TRANSDUCER

Part No.	A 1037	
	<u></u>	
	Convenience Conven	



Nominal range	0.5/5 A
Measurement range	0.01 10 A
Accuracy	±0.3%
Overvoltage category	CAT III/600V
IP	IP 40

Photo	Order No.	Description
	A 1479	Wide range power supply
%	A 1355	GPS receiver
	A 1622	3G / Wi-Fi Router



EV monitoring cable



A 1565

Waterproof case for outdoor application and recordings (pylons, switchyards)



Waterproof case with a telescopic handle and smooth-running wheels



Safety fuse

adapter, 3 pcs



S 2015

Safety flat clamp, 4 pcs



A 1198

Magnetic contact probe



Temperature probe



A 1648

Current clamp A 1281 extension cable, 5 m



A 1673

Micro SD card 32GB

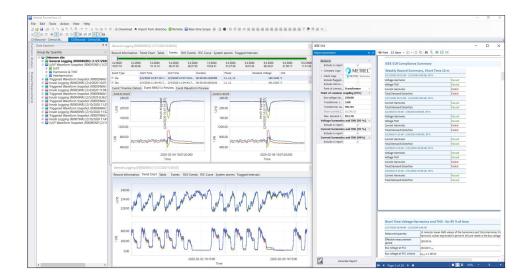


A 1458

SanDisk microSD card reader

PC SOFTWARE POWERVIEW 3

PC Software PowerView 3 software is a powerful platform for downloading, analysing recorded data and creation of power quality test reports. PC Software contains a package of functionalities needed for profound evaluation of power quality phenomena, data comparison and creation of complex test reports. It works in conjunction with Metrel new generation power quality analysers. For the instruments equipped with GPRS functionality PowerView3 enables remote control and data download.



KEY FEATURES

- User friendly interface: wide range of quick buttons, possibility to customize the environment by dragging, docking and resizing the window tabs.
- Structure: downloaded data is organized into Windows Explorer-like tree structure.
- "Drag and drop": downloaded data can be easily organized into multiple sites and sub-site locations.
- Data filtering: data in a structure can be grouped by quantity or by phase.
- Views: depending on selected record type, different views are available (Record Information view, Trend Chart view, Table view, Waveform Scope view, Voltage Quality view, etc.)
- EN 50160 analysis: automatic voltage quality analysis in compliance with custom or predefined EN 50160 Power Quality criteria and quick report printing.
- Chart zoom: chart can be zoomed depending on selected in a table value range.
- Remore control: via GPRS communication remote handling of the instrument and its data can be executed.
- GPS synchronization: simultaneous measurement on the different network points by using 2 or more synchronized instruments.
- On-line monitoring: real-time observing of signals and parameters is possible via PowerView3 while instrument is measuring / recording in the background.
- Export of test results: test results can be filtered and exported to other programs (MS Excel, MS Word, CSV, TXT).
- Reports: automatic generation of test reports from the selected views and data with attached graphs according specific standards/national specification, like: IEEE 519, GOST 32144/33073, Energy report, Energy demand report Codigo de RED
- SW and FW update: PowerView3 checks for new versions of the application and downloads updates from the Internet if necessary.

METREL D.D.

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ORDERING INFORMATION



MI 2893 Advanced set (AD)

- Instrument Power Master XT
- A 1502 1-phase flexible current clamps 3000 / 300 / 30 A, 4 pcs
- Test probe, (brown, black, grey, green, blue), 5 pcs
- Crocodile clip, (brown, black, grey, green, blue), 5 pcs
- Voltage measurement lead, (brown, black, grey,green, blue), 5 pcs
- Labels for colour coding
- · Temperature probe
- microSD memory card 8.0GB
- · microSD card reader
- PC SW PowerView3
- USB and Ethernet patch cable
- · Power supply adapter
- 1.2 V NiMH rechargeable battery, 6 pcs
- Professional protective waterproof case (A 1685)
- Instruction manual
- Calibration certificate



MI 2893 Euro set (EU)

 A 1227 1-phase flexible current clamps 3000 / 300 / 30 A, 4pcs (instead of A 1502 flexible current clamps)



MI 2893 Standard set (ST)

• Without flexible current clamps

