

Metrel MI 2885 Master Q4

Metrel MI 2885 Master Q4 Power Quality Analyzer Instruction Manual

Model: MI 2885 Master Q4

1. INTRODUCTION

The Metrel MI 2885 Master Q4 is a sophisticated 3-phase power quality analyzer designed for comprehensive electrical system analysis. This instrument is engineered to automatically record critical data and waveforms related to voltage events such as dips and swells. It also supports user-defined triggers for capturing specific quantities. This manual provides essential information for the proper setup, operation, and maintenance of your MI 2885 Master Q4 device.

For detailed analysis and reporting, the included PC software PowerView3 enables advanced data processing and professional report generation. The device is compliant with power quality standard IEC 61000-4-30 Class S (0.1%) and performs complete power quality analysis according to EN 50160.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Three-Phase Power Quality Analysis:** Measures Voltage/Current TRMS, Peak, and Crest Factor across 4 channels.
- **Wide Measurement Range:** 4-voltage channels (0 to 1000 Vrms, CAT III / 1000 V) and 4-current channels with automatic clamp recognition.
- **Compliance:** Adheres to IEC 61000-4-30 Class S (0.1%) and EN 50160 for complete power quality analysis, including signaling and interharmonics.
- **Event Recording:** Captures and records power supply events such as shutdowns, interruptions, swells, and dips.
- **Harmonic Analysis:** Performs harmonic and interharmonic analysis up to the 50th harmonic, including THD measurement.
- **Inrush Current Monitoring:** Records and displays inrush currents.
- **Data Storage:** Utilizes a microSD memory card (8GB included) for extensive data logging.

- **PC Software:** Includes PowerView3 for advanced data analysis, reporting, and remote control.

2.2 Included Equipment

The MI 2885 Master Q4 package typically includes the following components:

- MI 2885 Master Q4 Instrument
- 1-phase flexible current clamps 3000 / 300 / 30 A (A 1502), 4 pieces
- Test probes (brown, black, grey, green, blue), 5 pieces
- Crocodile clips (brown, black, grey, green, blue), 5 pieces
- Voltage measurement leads (brown, black, grey, green, blue), 5 pieces
- Labels for color coding
- microSD memory card 8.0GB
- microSD card reader
- PC SW PowerView3
- RS232, USB, and Ethernet patch cables
- Power supply adapter
- 1.2 V NiMH rechargeable batteries, 6 pieces
- Soft carrying bag
- Instruction manual (this document)
- Calibration certificate



Figure 1: Front view of the Metrel MI 2885 Master Q4 Power Quality Analyzer, showing the display and control buttons.



Figure 2: The Metrel MI 2885 Master Q4 instrument displayed with its full set of included accessories, including current clamps, test leads, and carrying bag.

3. SETUP

3.1 Battery Installation and Charging

1. Open the battery compartment cover located on the rear of the instrument.
2. Insert the 6 provided 1.2 V NiMH rechargeable batteries, ensuring correct polarity.
3. Close the battery compartment cover securely.
4. Connect the power supply adapter to the instrument and a suitable power outlet to charge the batteries before first use. The charging indicator on the device will confirm charging status.

3.2 Connecting Measurement Leads and Clamps

1. Identify the voltage input terminals and current clamp inputs on the instrument.
2. Connect the voltage measurement leads to the appropriate voltage input terminals. Use the provided color-coding labels for clear identification (brown, black, grey, green, blue).
3. Attach the crocodile clips or test probes to the ends of the voltage measurement leads.
4. Connect the flexible current clamps (A 1502) to the current input terminals. The instrument supports automatic clamp recognition.
5. Ensure all connections are secure before proceeding with measurements.

3.3 Initial Power-On and Basic Navigation

1. Press and hold the power button (usually marked with a red circle and line) to turn on the instrument.
2. The device will perform a self-test and display the main menu.
3. Use the arrow keys (Up, Down, Left, Right) to navigate through menu options.
4. Press the **ENTER** button to select an option or confirm a setting.
5. Press the **ESC** button to go back to the previous menu or cancel an operation.
6. Function keys **F1**, **F2**, **F3**, **F4** provide context-sensitive options displayed on the screen.

4. OPERATING INSTRUCTIONS

4.1 Measurement Functions

The MI 2885 Master Q4 offers a wide array of measurement capabilities:

- **Voltage:** TRMS, peak, crest factor (4-channels).
- **Current:** TRMS, peak, crest factor (4-channels).
- **Power:** Active, reactive, apparent.
- **Power Measurements:** Fully compliant with IEEE 1459 (active, non-active, fundamental, harmonic, load unbalance).
- **VFD (Variable Frequency Drives)** measurements.
- **Unbalance, Flicker Measurement.**
- **Harmonic and Interharmonic Analysis:** Up to 50th harmonics, THD measurement.
- **Energy:** Active, 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.
- **Power Quality Analysis:** According to EN 50160.
- **Temperature Measurement.**
- **Photo-Voltaic Inverter Efficiency Measurements.**
- **Power Factor, $\cos \phi$.**

4.2 Performing a Measurement

1. Ensure the instrument is properly connected to the electrical system to be measured. Refer to Section 3.2 for connection details.
2. From the main menu, navigate to the desired measurement function (e.g., "Power Quality," "Harmonics," "Event Recording").
3. Select the measurement type and configure any necessary parameters (e.g., recording interval, trigger levels).
4. Initiate the measurement. The instrument will begin collecting and displaying data.
5. To stop a measurement or recording, press the **ESC** button or follow on-screen prompts.

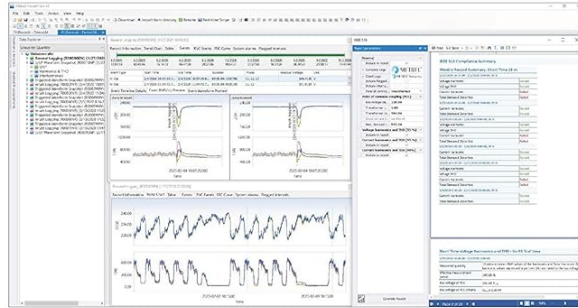
4.3 Data Recording and Export

The MI 2885 Master Q4 automatically records important data to the inserted microSD card. Recorded data can be reviewed on the instrument or exported for detailed analysis.

- **On-Instrument Review:** Navigate to the "Recorded Data" or "History" section in the menu to view past measurements and events.
- **PC Software PowerView3:** Connect the instrument to a PC using the provided USB, RS232, or Ethernet cable. Use the PowerView3 software to download, analyze, and generate reports from the recorded data. PowerView3 offers advanced features like data filtering, trend analysis, and graphical representation of measurements.

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.
- Remote 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.

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ORDERING INFORMATION



MI 2885 Advanced set (AD)

- Instrument Power Q4
- 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 color coding
- microSD memory card 8.0GB
- microSD card reader
- PC SW PowerView3
- RS232, USB and Ethernet patch cable
- Power supply adapter
- 1.2 V NiMH rechargeable battery, 6 pcs
- Soft carrying bag
- Instruction manual
- Calibration certificate



MI 2885 Euro set (EU)

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



MI 2885 Standard set (ST)

- Without flexible current clamps

Figure 3: Screenshot illustrating the Metrel PowerView3 PC software interface, showing various graphs and data analysis capabilities for power quality measurements.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the instrument's casing and display with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the device. Ensure the instrument is powered off and disconnected from all power sources before cleaning.

5.2 Battery Care

- Charge the NiMH batteries fully before extended storage to prolong their lifespan.
- If the instrument will not be used for a long period, remove the batteries to prevent leakage.
- Replace batteries when their performance degrades significantly. Use only recommended NiMH rechargeable batteries.

5.3 Firmware Updates

Periodically check the Metrel website or use the PowerView3 software for available firmware updates. Firmware updates can introduce new features, improve performance, or address known issues. Follow the instructions provided with the update package carefully.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the MI 2885 Master Q4. For problems not listed here, contact Metrel technical support.

6.1 Common Issues and Solutions

- **Instrument does not power on:**
 - Ensure batteries are correctly installed and charged.
 - Verify the power supply adapter is functioning if attempting to power via external source.
- **No measurement readings:**
 - Check all measurement lead and current clamp connections for proper seating.
 - Ensure the correct measurement function is selected on the instrument.
 - Verify that the current clamps are correctly positioned around the conductors.
- **Data not saving to microSD card:**
 - Ensure the microSD card is properly inserted.
 - Check if the microSD card has sufficient free space.
 - Try formatting the microSD card (*Note: This will erase all data on the card. Back up important data first.*).
- **Communication issues with PC (PowerView3):**
 - Verify the USB, RS232, or Ethernet cable is securely connected to both the instrument and the PC.
 - Ensure the correct communication port is selected in the PowerView3 software.
 - Restart both the instrument and the PC.

7. SPECIFICATIONS

The following tables provide detailed technical specifications for the Metrel MI 2885 Master Q4 Power Quality Analyzer.

7.1 General Specifications

Parameter	Value
Brand	Metrel
Model	MI 2885 Master Q4
Power Source	Battery Powered (1.2 V NiMH rechargeable batteries)

Parameter	Value
Display	4.3 inch color TFT (480 x 272)
Communication	USB, RS232, Ethernet
Memory	8GB microSD, up to 32GB supported
Overvoltage Category	CAT IV / 600V or CAT III / 1000V
Weight	0.9 kg
Dimensions	230 x 140 x 80 mm

7.2 Voltage Inputs (AC+DC)

Parameter	Value
Nominal voltage range (L-N)	1000 Vrms
Measuring range	10% ... 150% of nominal voltage
Accuracy	0.2% of nominal voltage
Sampling rate	5 kSamples per sec @ 50/60 Hz, sync with mains freq.
Mains frequency range	42.5 ... 69.0 Hz $\pm$ 10 mHz

7.3 Current Inputs (AC+DC)

Parameter	Value
Measuring range (with A1502 clamps)	3 ... 6000 Arms $\pm$ 1.5% of m.v.
Measuring range (with A1281 clamps)	50 m ... 1200 Arms $\pm$ 0.5% of m.v.

7.4 Functions and Accuracy

Function	Measuring Range	Accuracy
Power (P, Q, S)	Depends on voltage and selected clamps	IEC 61000-4-30 Class S (0.1%)
Energy	Depends on voltage and selected clamps	IEC 62053-21 Class 1, IEC 62053-23 Class 2
Harmonics (DC ... 50th) @ 50/60 Hz	0 ... 20% of nom. voltage	IEC 61000-4-7 Class 1
Flicker	0.2 ... 10	IEC 61000-4-15 Class F3
Unbalance	Voltage: 0 ... 5%, Current: 0 ... 20%	IEC 61000-4-30 Class S
Temperature	-10 ... +85 °C	$\pm$ 0.5 °C

Function	Measuring Range	Accuracy
Dips, Swell	10 ... 150% of nom. voltage	±0.2% of nominal voltage, ±1 cycle
Interrupts	0 ... 10% of nom. voltage	±1 cycle

TECHNICAL SPECIFICATION		
FUNCTION		
Voltage inputs	AC-DC	
Number of inputs	5	
Nominal voltage range (L ~ N)	Phase (L-N): 50 ... 1000 VRMS Line (L-L): 50 ... 1730 VRMS	
Measuring range	10% ... 150% of nominal voltage	
Accuracy	IEC 61000-4-30 Class S, ±0.1% of nominal voltage	
Sampling rate	7 kSamples per sec @ 50/60 Hz, sync with mains freq. 1.7 kSamples per sec @ VFD (5 Hz - 110 Hz)	
Mains frequency range	12.2 kSamples per sec @ 400 Hz 42.5 ... 69.0 Hz ±10 mHz 5 ... 110 Hz ± 10 mHz (VFD) 335.0 ... 465.0 Hz ± 100 mHz	
Current inputs	AC-DC	
Number of inputs	4	
Measuring range	3 ... 6000 ARMS ±1.5% of m.v.	
(with A 1227 / A 1502 flex clamps)	50 m ... 1200 ARMS ±0.5% of m.v.	
Measuring range (with A1281 iron clamps)		
Functions	Measuring range	Accuracy
Power (P, Q, S)	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 ... 20th) @ VFD (5 - 16 Hz)		
Harmonics (DC ... 13th) @ VFD (16 - 33 Hz)		
Harmonics (DC ... 5th) @ VFD (33 - 110 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	0.2 ... 10	IEC 61000-4-15 Class F3
Mains signalling	0 ... 15% of nom. voltage	IEC 61000-4-30 Class S
Unbalance	Voltage: 0 ... 5% Current: 0 ... 20%	
Temperature	-10 ... 85 °C	±0.5 °C
Dips, Swell	10 ... 150% of nom. voltage	±0.2 % of nominal voltage ±1 cycle
Interrupts	0 ... 10% of nom. voltage	±1 cycle
Recorders		
Memory	8GB microSD, up to 32GB supported	
General recorder		
Integration period	1s ... 2h	
Recorded signals	> 1000 (voltages, currents, harmonics, power...) Minimal, maximal and average value per interval - Voltage events - Custom alarms	
Duration	> 1 year (depends on size of SD card)	
Waveform recorder		
Duration	Up to 20 seconds of voltage and current waveform	
Trigger	Manual, Voltage Events, Custom Alarms, Voltage or current level (inrush), Time interval	
General		
Display	4.3 inch color TFT (480 x 272)	
Communication	USB, Ethernet	
Time synchronisation	GPS receiver (A 1355)	
Power supply	110 ... 240 Vac or 6 x NiMH rechargeable batteries, size AA	
Overvoltage category	CAT IV / 600 V or CAT III / 1000 V	
Weight	0.96 kg	
Dimensions	230 x 140 x 80 mm	

Figure 4: A page from the technical specifications document, detailing various measurement parameters, ranges, and accuracies for the MI 2885 Master Q4.

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The Metrel MI 2885 Master Q4 Power Quality Analyzer comes with **a2-year (24-month) warranty** from the manufacturer. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Technical Support

For technical assistance, troubleshooting, or service inquiries, please contact Metrel customer support. Refer to the official Metrel website for the most current contact information, including phone numbers and email addresses for your region.

Additional resources, such as FAQs, software downloads, and updated manuals, may also be available on the Metrel website: www.metrel.si

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Related Documents - MI 2885 Master Q4

 Power Master XT / Power Master / Master Q4 MI 2893 / MI 2892 / MI 2885 Version 3.0.0 Instruction manual Revised 2.0.0 (March 2023) 	METREL Power Master XT MI 2893/2892/2885: Instruction Manual for Power Quality Analysis This instruction manual provides detailed information on the METREL Power Master XT series (MI 2893, MI 2892, MI 2885) for power quality analysis, transient capturing, and energy efficiency measurements. Learn about instrument operation, features, and technical specifications.
 Master Q4 MI 2885 Instruction manual Revised 2.0.0 (March 2023) 	METREL MI 2885 Master Q4 Instruction Manual: Power Quality and Energy Analysis Explore the METREL MI 2885 Master Q4, a handheld instrument for detailed power quality analysis and energy efficiency measurements. This manual covers features, operation, and technical specifications for electrical professionals.
	Metrel Software and Instrument Compatibility and Licensing Guide A comprehensive guide detailing software licenses and instrument compatibility for Metrel's range of electrical testing and measurement equipment, including models for installation safety, appliance testing, power quality analysis, and digital multimeters.
 Power Harmonics Analyser MI 2092 User Manual Revised 2.0.0 (March 2023) 	MI 2092 Power Harmonics Analyser User Manual User manual for the Metrel MI 2092 Power Harmonics Analyser, detailing its features, operation, specifications, and safety considerations for three-phase power systems.



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EurotestLITE/EASI/XE
M 3000ME 3100ME 3102
Instruction manual
Version 1.0 (01/2018) (EN/FR/DE)



[METREL EurotestLITE/EASI/XE Instruction Manual](#)

Comprehensive instruction manual for the METREL EurotestLITE, EurotestEASI, and EurotestXE electrical installation testers, detailing operation, safety, and technical specifications for electrical installation inspections.

Documents - Metrel – MI 2885 Master Q4



Master Q4
MI 2885
Instruction manual
Version 8.1.2, Code No. 20 752 522



[METREL MI 2885 Master Q4 Instruction Manual: Power Quality and Energy Analysis](#)

Explore the METREL MI 2885 Master Q4, a handheld instrument for detailed power quality analysis and energy efficiency measurements. This manual covers features, operation, and technical specifications for electrical professionals.

lang:en score:50 filesize: 6.77 M page_count: 189 document date: 2018-05-25



[Metrel MI 2885 Master Q4 Class S Power Quality Analyzer](#)

Comprehensive overview of the Metrel MI 2885 Master Q4, a Class S Power Quality Analyzer designed for troubleshooting and detailed analysis of electrical power systems. It features multi-channel voltage and current measurements, harmonic analysis, event recording, and compliance with key international standards like IEC 61000-4-30 Class S.

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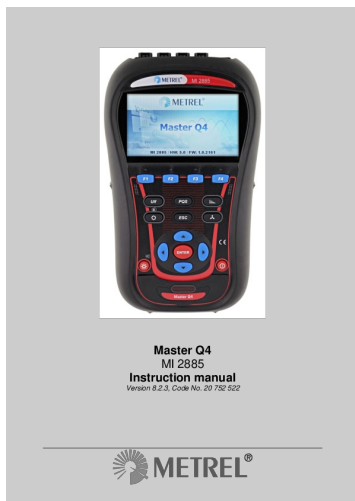
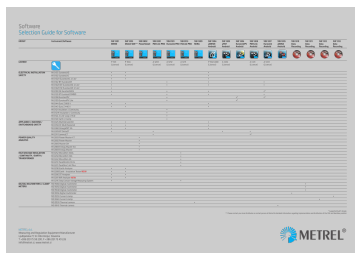
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2884 Energy Master XA MI 2883 Energy Master HIGH VOLTAGE INSULATION /
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[pdf] User Manual

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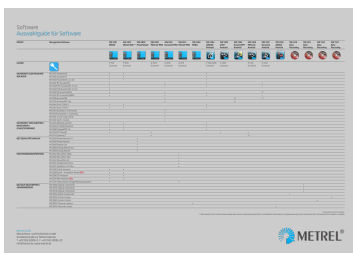


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[\[pdf\]](#) User Manual Accessories

Sirotić prog dir II Irvin 3G and Wi Fi Router A 1622 Instruction manual Metrel Remote Communication over GPRS network 5 Attach 2 antennas 3 Connect the power adapter to socket on front of device Then plug other end into WIFI Multilingual Ver 0 20 752 818 metrel si assets Navodila instrumentov Accessories |||

3G and Wi-Fi Router A 1622 Instruction manual Version 1.0, Code No. 20 752 818 Distributor: METREL ... 1622 - 3G and Wi-Fi Router Introduction 1 Introduction Metrel instruments MI 2892 Power Master, MI 2885 Master Q4, etc. can be remotely accessed through Ethernet communication port. However, on m... lang:en score:40 filesize: 1.19 M page_count: 43 document date: 2018-03-23



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Analizadores de calidad de energia MI 2885 Master Q4 Analizadores de la calidad de la energia FUNCIONES DE MEDICIN CARACTERSTICAS DE PRODUCTO Tensin: TRMS, pico, factor de cresta 4 canales ; Corriente: TRMS, pico, factor de cresta 4 canales ; Potencia activa, reactiva, aparente . Mediciones...

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Class S Power Quality Analyser MI 2885 Master Q4 1200 ARMS $\pm 0.5\%$ of m v Functions Measuring range
Accuracy P Q Depends on voltage and selected clamps IEC 61557 12 1 metrel@metrel.si 1499

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Netzqualitätsanalysegerät Klasse S MI 2885 Master Q4 Single 2015 Deu r recom ch shop DBFiles |||

Neu Netzqualitätsanalysegert Klasse S MI 2885 Master Q4 Der MI 2885 Master Q4 ist ein idealer Netzanalysator, der in der Lage ist, alle wichtigen Ereignisse wie Spannungseinbrüche und Spannungsspitzen aufzuzeichnen. Zusätzlich kann man 7 optionale Spannungseignisse einstellen. Durch die übersichtlich...

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Master Q4
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Master Q4 MI 2885 Manual de instrucciones Versin 8.1.2, cdigo n 20 752 559

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3 MI 2885 Master Q4 ndice 3.13.3 Tabla

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Master Q4
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Instruction manual
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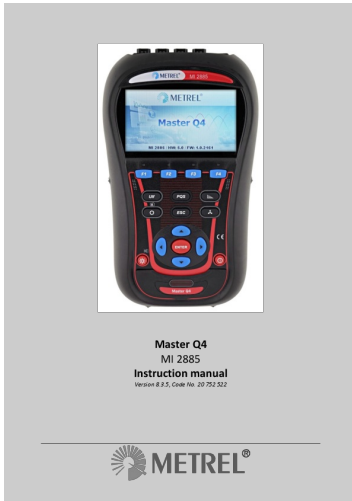
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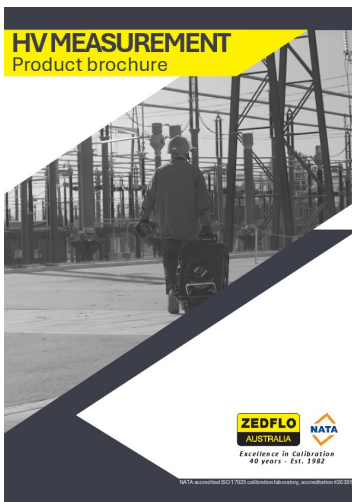
Class S Power Quality Analyser MI 2885 Master Q4 Frodexim 2022 10 28 — The is an ideal

troubleshooting tool recorders are designed to automatically record all important data and waveforms

power analyzer master q4 5 imimg data5 GE QP YL SELLER 7941094 |||

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22 281 2559 , MI 2892 Power Master 3 Energy Saving EN50160 IEC61000-4-30 Class A Standard Class A , , Harmonics, Flicker, Metrel MI 2892 Class S Software Power View 3 Internet WIFI Router USB Flash Drive MI 2885 Master Q4, MI 2883 Energy Master 3 Metrel MI 2885 ...

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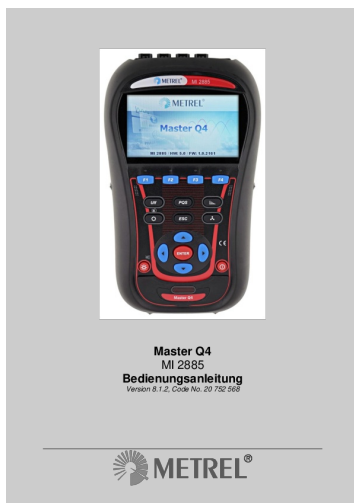
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Class A MI 2892 Power Master and Class S MI 2885 Master Q4, MI 2883 Energy Master - predefined calibration points, related to the tested ins...

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Power Quality and Energy Management for Industrial Applications LIST OF AVAILABLE CURRENT CLAMPS R ... ory card reader. A 1458 A 1354 S 2072 MAIN DIFFERENCES BETWEEN MODELS Model MI 2892 Power Master MI 2885 Master Q4 MI 2883 Energy Master IEC 61000-4-30 Transient Compliance recorder Class A ...

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, METREL ISO9001 Electrical Installation Safety Metrel MI 3100 SE : Eurotest EASI Multifunction Electrical Installation Safety Tester BS7671, IEC60364, IEC61557 Single Phase 3 Phase RCD Metrel MI 3152EU : Eurotest XC Multifunction Electrical Inst...

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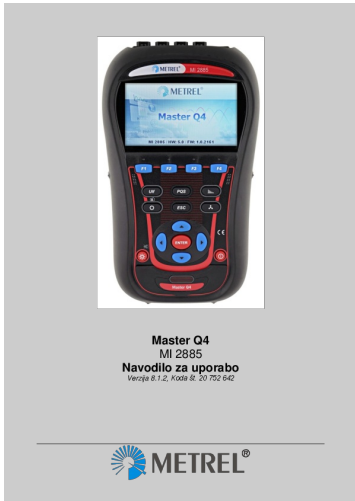
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Metrel MI 2885 Master Q4: Class S Power Quality Analyzer

Detailed specifications and features of the Metrel MI 2885 Master Q4, a portable three-phase power quality analyzer designed for troubleshooting and long-term recording in electrical systems.

lang:en score:27 filesize: 767.54 K page_count: 2 document date: 2015-12-03



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Sirotić prog dir II Irvin Master Q4 MI 2885 Navodilo za uporabo Metrel 6 2 11 Faktor zamika DPF ali Cos ϕ Nastavitev časa datuma in časovnega področja Jezik Izbira jezika SI Ver 8 1 20 752 642 metrel si assets Navodila instrumentov Instruments Slo |||

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Sivu 1 4 Page 2 Tekniset tiedot ETIM Snro 6769300 20250806 sähkönumerot |||

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2892 Power Master Class A 0,1 Independent MI 2885 Master Q4 Class S 0,1
independent MI 2884 Energy Master XT Class S 0,2 MI 2883 Energy...

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2020 mi master q4 ang perel fi files item 71510363 |||

Class S Power Quality Analyser MI 2885 Master Q4 Power Quality Analyser The MI
2885 Master Q4 is an ideal troubleshooting tool. The recorders are designed to
automatically record all important data and waveforms of voltage events like Dips and
Swells. In addition the user can set 7 optional trigge...

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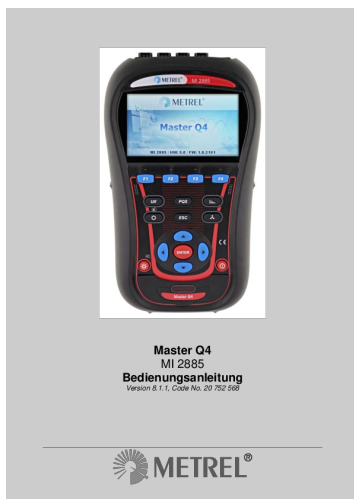


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1020 A 1021 A 1026 A 1033 A 1037 A 1039 A 1041 A 1043 A 1044 A 104...

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Übereinstimmung mit der Norm über die Netzqualität IEC 61000 4 30 Klasse S BDA cdn reichelt de
documents datenblatt D100 |||

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Master XT NEW MI 2892 Power Master MI 2885 Master Q4 MI 2883 Energy Master
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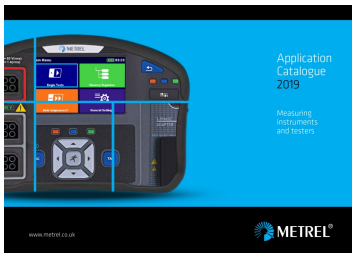
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