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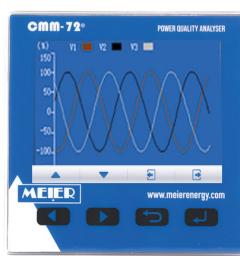
Power & Precision



Solutions for energy management
Power Monitor System

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Power Quality Analyzer CMM-72



- 8MB** Memory
- 0.2s** Energy Accuracy
- In** Neutral Current Input
- 4 tarifs** 4 Tariffs
- Optional Modules**
- Capacitive Buttons**
- Harmonics**
- Dimensions 96x96**

CMM-72

Measurements:

- V/I/A/P/S/I/F/DPF/F
 - Fundamental and RMS values
 - Maximum demand
 - Max./Min. Values
 - Load Profile
- Data Log**
- Demand record
 - Max./Min. value record
 - Off-limit record
 - SOE record
- Power quality:**
- THDU, THDI
 - Up to the 53rd harmonic
 - Sequential components
 - Unbalance
 - Crest factor and K factor
 - Phasor diagram
- Energy measurement:**
- Bi-directional energy
 - Reactive energy in 4 quadrants
 - Energy by tariff
 - Fundamental energy
- Inputs/Outputs**
- 1 Energy pulse
 - 1 RS485 Modbus communication port
 - 2 Digital Inputs
 - 2 Relay Outputs
 - Internal Clock
 - Other modules in option



The **CMM72** power quality analyzer measures all electrical parameters of the installation in Low and Medium voltage. It represents the state of the art in electrical measurement. Its advanced features for power quality analysis and metering can be used for all types of energy management and electrical installation monitoring applications. The device includes a large high-resolution color LCD screen and capacitive touch buttons which offers an IP64 protection degree on the front panel of the cabinet, allowing installation in the most severe operating conditions. The instrument has two slots for inserting extension modules, which allow expanding the functionality of the instrument.



Extension Modules for CMM-72



Multi-functional power meter CMM-62



- Modbus** Communication
- 0.5S** Energy accuracy
- In** Neutral current inputs
- 4 tarifs** 4 Tariffs
- Pulse output**
- Harmonics**
- Dimensions 96x96**
- 1** Input
- 2** Output

Multi-functional power meter CMM-61



- Modbus** Communication
- 0.5S** Energy accuracy
- Rogowsky coils**
- 4 Tarifs** 4 Tariffs
- Pulse output**
- Harmonics**
- Dimensions 96x96**
- 2** Input
- 1** Output

Features:

- Measurements :**
- V/I/A/P/Q/S/I/PF/DPF/F
 - Maximum Demand
 - Max./Min. Values

Power quality :

- THDU, THDI
- Up to the 53rd harmonic (CMM-61h only)
- Unbalance

- Energy measurement :**
- Bi-directional energy
 - Reactive energy in 4 quadrants
 - Energy by tariff

- Inputs/Outputs :**
- 1 Energy pulse
 - 1 RS485 Modbus communication port
 - 2 Digital Inputs
 - 1 Relay Output
 - Internal Clock (without battery)

The multifunction power meter **CMM62** can measure all parameters of the electrical network in addition to energy in bidirectional mode. It features an RS485-Modbus communication port and a pulse output for energy measurement. Designed to be mounted on the front of cabinets, it adopts an ultra-slim design and is easy to install. As an advanced digital measuring device, it can be used in electrical installation monitoring and supervision systems as well as electrical energy management systems.

With its IP54 front protection rating, it is suitable for the most demanding environments (mines, quarries, food industry, etc.).

Features :

Measurements :

- V / A / P / Q / S / I / PF/DPF/ F
- Fundamental and RMS values
- Maximum Demand
- Max./Min. Values

Power quality :

- THDU, THDI
- Up to the 51st harmonic
- Sequential components
- Unbalance
- Crest factor and K factor

Energy measurement :

- Bi-directional energy
- Reactive energy in 4 quadrants
- Energy by tariff (13 last months)

Inputs/Outputs :

- 1 Energy pulse
- 1 RS485 Modbus communication port
- 2 Digital Inputs
- 2 Relay Outputs
- Internal Clock

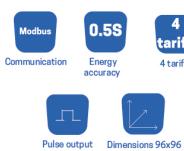
The multifunctional power meter **CMM61** can measure all parameters of the electrical network in addition to bidirectional energy. Designed to be mounted on the front of cabinets, it adopts an ultra-slim design both on the front and back (total thickness less than 40 mm).

The device is available in two versions: A classic version, **CMM-61C**, equipped with current measurement inputs up to 5A, and the **CMM61-R** model, which is equipped with current measurement inputs suitable for flexible current sensors (Rogowski coils).

The **CMM-61R** is therefore the ideal solution for energy management system implementation projects in existing installations that cannot tolerate power interruptions.

SMALL SIZE POWER METER


The power meter **CMM41** can measure all parameters of the electrical network in addition to bidirectional energy. Designed to be mounted on the front of cabinets, it adopts small dimensions: 72x72 mm

CMM-41


Measurements:
 •V/I/P/Q/S/PF/F
 •Maximum Demand
 •Max/Min Values
Power quality:
 •Unbalance
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
Inputs/Outputs
 •1 Energy pulse
 •1 RS485 Modbus communication port

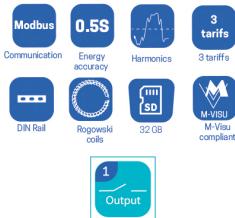
MULTI-FUNCTIONAL POWER METER

CMM-R6D

Measurements:
 •V/I/P/Q/S/PF/F
 •Maximum Demand
 •Max/Min Values
Power quality:
 •THDU THDI
 •Up to the 31st harmonic
 •Sequential components
 •Unbalance
 •Crest factor and K factor
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
Communication:
 •Modbus
Optional Modules:
 •0.5S
 •Harmonics
Pulse output:
 •DIN rail mounted
EMR-IO

EMR-IO (Extension module)
 •4 Digital Inputs + 2 Relay Outputs

The multifunction power meter **CMM-R6D** can measure all parameters of the electrical network in addition to energy in bidirectional mode. It can be equipped with a 4 Inputs / 2 Outputs module for control and monitoring of field equipment, in addition to a built-in ground leakage current measurement input, and a PT100 temperature measurement input. The device includes a power measurement function for the backup source, which can be triggered by an external signal.

POWER METER AND RECORDER

CMM-R5M

Measurements:
 •V/I/P/Q/S/PF/F
 •Maximum Demand (current and active power)
Power quality:
 •THDU THDI
 •Up to the 25th harmonic
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
 •Energy by tariff (3 tariffs)
Special features
 •SD memory (32 GB)
 •RS485 Modbus communication port
 •Relay Output
 •Rogowski coils current inputs
 •Internal Clock

The **CMM-R5M** power meter can measure all parameters of the electrical network in addition to bidirectional energy. Designed to be mounted on DIN Rail, It includes 3 current measurement inputs for flexible sensors (Rogowski coils) and a standard 32 GB SD memory. Data is recorded in CSV format and can be easily accessed using Excel or M-Visu free software.

ENERGY METERS- DPM RANGE


DPM energy meters are intended for accurate measurement of energy in single-phase or three-phase networks 4 wires (3L+N).

The DPM-2M and DPM-4M meters allow direct current measurement up to 63A (40A for DPM-1P), while the DPM-4C meter allows indirect measurement of current, via a current transformer (x/1A or x/5A).

The DPM-2M and DPM-4M meters are certified MID and can be used for energy billing.

All these energy meters have an RS485-Modbus communication port and a pulse energy metering output.


DPM-1P

Measurements:
 •V/I/P/Q/S/PF/F
 •Direct current input: 40A
Communication:
 •RS-485 interface
 •Modbus RTU Protocol
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
Accuracy:
 •Class 1 (IEC-62053-21)
Wiring:
 •1P2W
Voltage:
 •230 VAC
Pulse output:
 •18mm width


DPM-2M

Measurements:
 •V/I/P/Q/S/PF/F
 •Direct current input: 63A
 •Energy by tariff (2Mf model)
Communication:
 •RS-485 interface
 •Modbus RTU Protocol
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
Accuracy:
 •Class B (EN-50470)
 •MID Certified
Wiring:
 •1P2W
Voltage:
 •230 VAC
Pulse output:
 •35mm width


DPM-4M

Measurements:
 •V/I/P/Q/S/PF/F
 •Direct current input: 63A
 •Energy by tariff (4Mf model)
Communication:
 •RS-485 interface
 •Modbus RTU Protocol
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
Accuracy:
 •Class B (EN-50470)
 •MID Certified
Wiring:
 •3P4W
Voltage:
 •3x230/400 VAC
Pulse output:
 •72mm width


DPM-4C

Measurements:
 •V/I/P/Q/S/PF/F
 •Via CT (1A or 5A)
Communication:
 •RS-485 interface
 •Modbus RTU Protocol
Energy measurement:
 •Bi-directional energy
 •Reactive energy in 4 quadrants
Accuracy:
 •Class 0.5 (IEC-62053-21)
Wiring:
 •3P4W
Voltage:
 •3x230/400 VAC
Pulse output:
 •72mm width

Flexible Rogowski coils



RCM-100B
RCM-150B
RCM-200B

08 screw type flexible Rogowski coil

Read Accuracy: 0.5% class (Vertically centered position)
Linearity: ±0.2% maximum of the measured value (1%~100%)
Phase error: <0.5°(45Hz~65Hz)
Applicable voltage range: 1000V CATIII, 600V CATIV
Flame retardant: UL 94 V-0 rated
Operating temperature: -30°C to 80°C

Characteristics	RCM-100	RCM-150	RCM-200
Reference Rated current	10-1000A	30-3000A	60-6000A
Window Size (mm)	100	150	200
Coil length (mm)	395	525	665
Coil section (mm)	8	8	8
Coil Resistance (Ω)	260 (+/-10)	320 (+/-10)	390 (+/-10)
Lead length (m) *	2	2	2

(*) Other lead lengths on demand

1A output integrator for Rogowski coils:

Single phase or Three phase DIN-RAIL 1A Output integrator for the use of Rogowski coils with standard measuring devices with /1A or /5A current measurement input. Converts mV output signal of Rogowski coils to 0-1A signal.

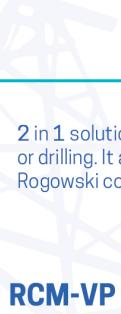
- High read accuracy 0.5%
- Compact DIN-RAIL construction
- High bandwidth for measurement 30 to 5kHz
- Output 1A rms
- Power supply : 12 VDC



RCMI-01

Single phase integrator

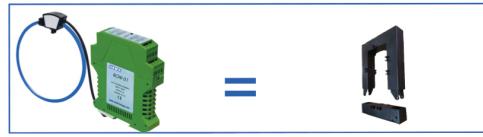
RCMI-01-100: 1x 1000A/1A (compatible with RCM-100B)
 RCMI-01-150: 1x 3000A/1A (compatible with RCM-150B)
 RCMI-01-200: 1x 6000A/1A (compatible with RCM-200B)



RCMI-03

Three-phase integrator

RCMI-03-100: 3x 1000A/1A (compatible with RCM-100B)
 RCMI-03-150: 3x 3000A/1A (compatible with RCM-150B)
 RCMI-03-200: 3x 6000A/1A (compatible with RCM-200B)



2 in 1 solution for measuring the voltage on busbar without inerrupt or drilling. It also allows easy and centered fixation of the flexible Rogowski coils of the RCM range

RCM-VP

Insulated voltage measuring terminal for copper
Busbar thickness : 5 -15mm
Cable length: 3 meters
Rated voltage: 230 to 600 VAC

Communication Gateway



GR42-TCP-WIFI

DIN rail mount RS485 to Ethernet communication gateway.
 Ethernet communication via RJ45 or WiFi port
 Two-way transparent transmission between RS485 and WiFi/Ethernet
 Ethernet: 10/100 Mbps, MDI/MDIX
 WiFi: 802.11b/g/n (2.412 GHz - 2.484 GHz)
 RS-485: 300 bps to 230,4 kbps
 Power supply: 5 to 36 VDC (220 VAC adapter included)

Features:



WiFi b/g/n



Ethernet



RS-485



Modbus



Standard DIN Rail



PC+ABS flame retardant VO



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