EMH metering GmbH & Co. KG

Neu-Galliner Weg 1 • 19258 Gallin GERMANY

Tel +49 38851 326-0 Fax +49 38851 326-1129 Email info@emh-metering.com Web www.emh-metering.com +49 38851 326-1930 (Technical Support) Tel Email support@emh-metering.com

KIZ **Compact industrial meter**

EN Instructions for use

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Scope of delivery

Please check that the contents of the packing box are complete before starting the installation and start-up procedure.

- 1 KIZ device
- 1 Instructions for use

If the contents are incomplete or damaged, please contact your supplier. Store, use and transport the device in such a way that it is protected against moisture, dirt and damage.

Important information

These instructions for use are part of the documentation.

These instructions list all the different device versions. Some of the features described herein may not be applicable to your particular device.

Please see the product manual for more comprehensive information about the device. Please also observe all the documents included with other components.

Target audience

These instructions are intended for technicians who are responsible for the installation, connection and servicing of the devices.

The device must be installed and put into operation only by qualified electricians in accordance with generally accepted rules of technology and the regulations, which are relevant for the installation of telecommunications equipment and end devices.

Intended use

The meter is intended to be used solely for the measurement of electrical energy, and it must not be operated outside the specified technical data (see name plate).

Maintenance and warranty instructions

The device requires zero maintenance. It is not permitted to make any repairs in the event of any damage (e.g. due to transport or storage).

If the device is opened, the warranty and the Declaration of Conformity will be rendered null and void. The same applies where a defect is caused by external factors (e.g. lightning, water, fire, extreme temperatures and weather conditions), or by improper or careless use or handling.

The seals may only be broken by authorised personnel.

Care and disposal instructions

Risk of fatal injury in case of contact with live parts!

Before the housing of the meter is cleaned, all conductors that the meter is connected to must be de-energised.

Use a dry cloth to clean the device housing. Do not use any chemical cleaning agents!

The following table names the components and how they are to be treated at the end of their life cycle.

Components	Waste collection and disposal
Printed circuit boards	Electronic waste: Dispose of such waste in accordance with the local regulations.
LEDs, LC display	Hazardous waste: Dispose of such waste in accordance with the local regulations.
Metal parts	Recyclable material : Sort such material and send it for recycling.
Plastic parts	Send sorted plastic parts to a recycling plant (regranulation) or, where applicable, to a waste incineration plant (thermal energy generation).

Basic safety instructions

Please adhere to the following basic safety instructions:

- Read all the enclosed instructions and information.
- Observe the warnings on the device and in the documents.
- Always be aware of safety issues and hazards when working on the device.
- The customary local occupational health and safety regulations for electrical installations must be observed during assembly, installation and removal of the device.
- Make sure that the installation and operating location of the device meets the specifications in the technical data.
- Before assembly, check the devices for any transport damage and other externally visible damage.
- Only use the device if it is in a technically flawless state, and solely in line with its intended use.
- The connection cables used to connect a meter must be selected for type, cross section, voltage and temperature. In the process, the maximum load on the meter and the installation environment must be considered.
- Attach ferrules to flexible wires.
- Observe the maintenance and warranty instructions.
- If the mains power fails and then returns, there is no need to do anything to the meter.

General description

This meter is a digital single-rate or two-rate tariff meter for measuring positive active energy in 2 and 4-wire networks.

Tariff switching is performed by means of an external control input.

The device is primarily designed for use in energy data collection for industrial engineering and building technology, and for use in the utility sector.

Its design provides for space-saving assembly (just 4 HP wide).

The meter has a 7-digit LC display.

Energy consumption values are displayed in 6 digits before the decimal point and 1 digit after the decimal point.

It is also possible to output the energy consumption values via a pulse output (max. 27 V DC, 27 mA) and/or an electric interface (M-Bus as per EN 13757-2, -3). The pulse constant and pulse length are fixed.

The meter is in accuracy class B as per EN 50470-1, -3.

Main features of the meter

- Measurement of active energy +A with return lock
- · Designed as a direct connected meter
- Up to 2 tariffs
- Bus-enabled: M-Bus interface
- 7-digit LC display
- Pulse output for transfer of energy-proportional pulses
- Test LED for testing the meter
- Recording of instantaneous values for P (per phase and total), U and I (per phase) technical data

Technical data

Voltage, current	See name plate
Utilisation category	UC2
Overvoltage category	OVC III (as per EN 62052-31)
Rated peak withstand voltage	4 kV (as per EN 62052-31)
Frequency	50 Hz
Input	
System voltage	230 V
Output	
S0 output	Max. 27 V DC, 27 mA (passive)

Power consumption per phase	
Voltage circuit	< 0.55 VA / < 0.4 W
Current path	< 0.01 VA
Temperature range	Defined operating range: -25 °C+55 °C
	Limit range for operation, storage and transport: -40 °C+70 °C
Humidity	Maximum 95%, non-condensing, as per EN 62052-11, EN 50470-1 and EN 60068-2-30
Altitude	up to 3,000 m
Protection class	II
Degree of protection	Housing, connections: IP20
Installation environment	The device may only be used in switch and meter cabinets with a degree of protection of IP51 (or higher). This ensures protec- tion against penetration by dust and water as specified by the relevant standards (EN 50470-1, EN 62052-31).
Fire properties	As per EN 62052-31
Environmental conditions	Mechanical: M1 according to the Measuring Instruments Directive (2014/32/EU)
	Electromagnetic: E2 according to the Measuring Instruments Directive (2014/32/EU)
	Intended operating location: Interior as per EN 50470-1
Weight	Approx. 350 g

Housing and display elements



- 1 Sealing eye
- 2 Terminal cover with connection diagram
- 3 Display
- 4 Name plate
- 5 Test LED
- 6 Terminal cover with designation of additional terminals
- 7 Sealing eye
- 8 Catch mechanism on the back of the meter

Name plate



- 1 Year of construction
- 2 Safety instructions
- 3 Circuit number
- 4 Product standard
- 5 Serial number
- 6 Overvoltage category
- 7 Manufacturer's address
- 8 Safety and application information
- 9 Conformity and certification marking
- 10 Utilisation category
- 11 LED and output pulse constant
- 12 Operating temperature
- 13 Accuracy class
- 14 Frequency
- 15 Voltage and current
- 16 Type designation and type code

Display

The display is a liquid crystal display (LCD) with the following design:



- 1 Phase indication
- 2 Display of the active tariff
- 3 Communication symbol
- 4 Display of units
- 5 Value area

Phase indication

L1, L2, L3 permanently lit:Phase voltages are presentL1, L2, L3 flashing:Rotating field of the voltage is wrongL1, L2, L3 off:Failure of the phase

Display of the active tariff

T1 lit:Tariff 1 active, display of tariff register 1T1 lit and T2 flashing:Tariff 1 active, display of tariff register 2T2 lit:Tariff 2 active, display of tariff register 2T2 lit and T1 flashing:Tariff 2 active, display of tariff register 1

Communication symbol

Lit:

Communication active via the electrical interface.

Units

Unit of the value displayed in the value area.

Value area

Display of register contents

M-Bus interface

The M-Bus interface is designed as per EN 13757-2, -3.

The following parameters can be transferred via the M-Bus:

- Manufacturer identification
- Medium
- Primary and secondary address of the M-Bus
- Energy values
- Instantaneous values:
 - PTotal
 - Individual power values (P1, P2, P3)
 - Currents (I1, I2, I3)
 - Voltages (U1, U2, U3)
- Error status

These data are output as a standard response and can be displayed by standard tools such as "Lorus".

The primary M-Bus address, secondary M-Bus address and baud rate can be modified using standard M-Bus commands.

Ex works, the meter has the following settings:

- Primary address: 001
- Secondary address: 8-digit, e.g. 12345678 (serial number)
- Baud rate: 2400 baud

Further functions and details are described in the M-Bus description for this meter.

Input

In the two-tariff version, the meter is equipped with a control input (system voltage) for tariff switching.

Specifications	
System voltage	230 V AC (standard)

Output

The meter has a potential-free S0 pulse output (as per EN 62053-31).

Specifications	
SO	Max. 27 V DC, 27 mA (passive)

The pulse duration is 30 or 100 ms, depending on the device version.

Depending on the device version, the energy pulses $({\rm R}_{\rm A})$ are 100 or 1 000 pulses/kWh.

Test LED

The test LED is used to output active-energy-proportional pulses and to display standstill and start-up.

The LED constant is 10 000 pulse/kWh, the pulse length is 2.5 ms.

If the meter is at a standstill, the LED is permanently lit. If the meter has started up, the LED flashes and outputs the active-energy-proportional pulses.

Installation and start-up

Mounting the meter

The meter can be mounted on TH 35-7.5 cap rails as per EN 60715. The meter is designed only for cap-rail mounting in switch and meter cabinets. The following figures show the dimensions (in mm) relevant for mounting.

Risk of fatal injury in case of contact with live parts!

During installation or when replacing the meter, all conductors connected to the meter must be de-energised.

- Remove the corresponding pre-fuses, on the mains side and on the creation side in case of a two-sided feed.
- Store them in a secure location to ensure that no one else can insert them again without being noticed.
- If you use selective automatic circuit breakers for system disconnection, secure them to prevent them from being switched on again without being noticed.
- Before the installation of a meter, make sure that the consequences of disconnecting the electrical system will not result in immediate danger to the life or health of persons or cause any economic damage.
- To avoid any immediate hazards or damage, take appropriate measures to prevent malfunctions before disconnection of the system.
- Use the specified screw-type terminals only for installation and connection of the meter.

Risk of fatal injury due to arcing and electric shock!

The voltage taps in the meter are not fuse-protected, and are connected directly to the main voltage.

• External devices that are operated using the meter's voltage taps must be fuse-protected with a pre-fuse of ≤ 0.5 A in accordance with the applicable technical regulations.

ATTENTION

Damage to meter due to missing pre-fuse on control input!

• Fuse-protect the control input with a pre-fuse of 0.5 A.

All measurements in the following drawings are given in mm.

Front view



View from above



Left side view



View from below



Risk of fatal injury due to arcing and electric shock!

The inputs and outputs for the additional terminals are not fuse-protected in the meter.

- Fuse-protect the inputs with a pre-fuse of ≤ 0.5 A in accordance with the applicable technical regulations.
- Fuse-protect the outputs as per the current specification on the connection diagram of the meter, and the Opto-MOSFET output with a pre-fuse of 0.1 A in accordance with the applicable technical regulations.

Removing the meter

To remove the meter from the cap rail, it is possible to undo the catch mechanism on the underside of the meter with a suitable screwdriver.

Connecting the meter

When connecting the meter, always observe the relevant connection diagram in the terminal cover of the meter. If there is no connection diagram, please contact your supplier.

Example connection diagrams

\land DANGER

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Improper installation endangers life and health, and can lead to malfunctions and material damage!

• When connecting the meter, make sure that the neutral conductor terminals 10 and 12 are on the left.

2-wire version, connected directly



4-wire version, connected directly



Terminal block

ATTENTION

Application of excessive torque will damage the connection terminals!

The appropriate torque is dependent on the type of connection line involved and its maximum current.

• Tighten the connection terminals to the corresponding torque as per EN 60999-1.

Improper installation endangers life and health, and can lead to malfunctions and material damage!

- Use an overcurrent protection device rated for a maximum of 63 A as per the applicable Technical Connection Rules for Power Installations (e.g. selective main line circuit breaker) upstream of a meter with direct connection.
- The connecting paths must be fuse-protected as per the applicable technical regulations and in accordance with the current specification on the meter's name plate.
- The installer bears responsibility for coordinating the rated values and parameters of the supply-side overcurrent protection devices with the maximum rated currents as well as the rated consumption category of the meter system for directly connected meters.
- The connection cables used to connect a meter must be selected to match the maximum load of the meter and the installation environment in terms of type, cross section, voltage and temperature.

Dimensions, cross sections, torques	Current and N ter- minals	Voltage and additional terminals
Terminal dimensions W x H or d (mm)	6.4 x 6.5	2.5
Minimum connection cross sections (mm ²)	1.5	0.5
Maximum connection cross sections (mm²)*	16.0	2.5
Maximum torques (Nm)	3.0	0.8
Screw type	Cross slot combination screw type PZ2	Slotted screw
Thread size	M6	M3

* Rated connection capacity based on EN 60999-1



- 1 Neutral conductor N
- 2 Current input I1
- 3 Current input I2
- 4 Current input I3
- 5 Neutral conductor N
- 6 M-Bus interface (protected against reverse polarity, optional)
- 7 Current output I1
- 8 Control input
- 9 Current output I2
- 10 S0 output
- 11 Current output I3

Terminal cover

To protect the meter from unauthorised access, fit each sealing eye (see "Housing and display elements" on page 7) with a seal. To protect the terminals and corresponding labelling, the meter must be operated and stored with the terminal covers closed.

Display elements



Unavailable functions, e.g. M-Bus, do not appear on the display.

	L1 L2 L3 T1 ★ T2 ☞ \$** 8.8.8.8.8.8.8.8 kWAhh	Display test	All display elements flash for approx. 4 s after start-up
	UEr. 103	Firmware version	Appears for 5 s (once after start-up)
	L1 12 13 11 [5:00000	Code checksum	Appears for 5 s (once after start-up)
	FF:00000	Error display	Appears for 60 s when an error has occurred
ting display 신지 - 151 [CD51] [CD51	000000000kW h	Energy value of the active tariff	Appears for 10 s (for only 4 s when an error has occurred)
	00000000kW h	Energy value of the inactive tariff	Appears for 5 s
	P: 0.08 w	Total power P	
	P & 003 w	Power P for phase 1	
terna	P2: 0.04 w	Power P for phase 2	
A	P3: 0.0 fw	Power P for phase 3	Appears for 2 s each
	U 8 229 v	Voltage U for phase 1	
	U2: 230 v	Voltage U for phase 2	
	U1213 T1 U3: 228 v	Voltage U for phase 3	

	L1 L2 L3 T1 { 0.0 A	Current I for phase 1	
	12: 001 A	Current I for phase 2	
splay	11 L2 L3 T1 13: 0.00 A	Current I for phase 3	
ing di	и I2 I3 т Я { 12]	Primary M-Bus address	Appears for 2 s each
Alternat	иее т Л2: 123Ч	Secondary M-Bus address: MSW (most significant word) = 4 highest-value characters	
	A2:5678	LSW (least significant word) = 4 lowest-value characters	
	L1 L2 L3 T1 * T2 ! 🔂 🕬 ? 8.0.0.0.0000 kWAhh	Display test	

Error display

To ensure fault-free operation of the meter, the following are checked when voltage returns, and every day during operation:

- Checksum across entire code range
- Configuration and synchronisation data
- Correct transfer of configuration and synchronisation data
- Correctness of saved energy measurements

If an error occurs during this check, this will be displayed on the display as an error code:

Error code	Meaning
00001	Checksum error, code
0000 2	Checksum error, data
0000 4	Measuring system cannot be configured
0000 8	Checksum error, energy registers



If an error is displayed, the meter data must no longer be used for billing, and operation of the device can be affected.

The error code can only be reset at the manufacturer's plant.

If the device is to be used for billing again, it must be put back into service by the manufacturer in a way that is compliant with the law on weights and measurements after it has been repaired.

Abbreviations

A	Active energy
+A	Positive active energy (customer obtains from utility company)
CI.	Accuracy class
DIN	Deutsches Institut für Normung e.V. (German Standardisation Institute)
EN	European Norm
EVU	Utility company
HP	Unit of division according to DIN 43880
I	Current
IP	Ingress Protection (protection classification)
L1, L2, L3	External conductor
LC	Liquid Crystal
LCD	Liquid Crystal Display
LED	Light emitting diode
N	Neutral conductor
OVC	Overvoltage category
Р	Active power
Pulse	Pulses
pulse/kWh	Pulses per kilowatt hour
SH	Selective main line protection
S0	Interface as per EN 62053-31
ТАВ	Technical Connection Rules
U	Voltage
UC	Utilisation category

Declaration of Conformity

EU-Konfor EU Declarati	mitätserklä on of Conformi	rung ity		metering
Der Hersteller The manufacturer				
EMH metering Neu-Galliner 19258 Gallin GERMANY	g GmbH & Co. KG Weg 1			
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The current EU Declaration of Conformity is available on the internet site <u>www.emh-metering.com</u> in the "Products & Solutions" area for the meter's product description. The specifications for creating the Declaration of Conformity can change at any time, so save the Declaration of Conformity when the device is delivered.



EMH metering GmbH & Co. KG • Neu-Galliner Weg 1 • 19258 Gallin • GERMANY • Tel. +49 38851 326-0 • info@emh-metering.com • www.emh-metering.com