

FacilityWeb

Electric Energy Meter

EZ162A-FW / EZ382A-FW

Description

The electric energy meters EZ162A-FW and EZ382A-FW are direct connection single-phase and three-phase meters for 4-quadrant measurement.

The fully-electronic, solid-state meters allow energy measurement free from being affected by shock or vibration.

The measurements remain accurate irrespective of the physical orientation of the meter. Measurements via the measuring shunts are resistant against magnetism and DC currents.

The easy-to-read display automatically alternates between different types of readings but can also be set manually with a push button.

Measurements are stored both in the integrated tamper-proof data logger and the EIB module.

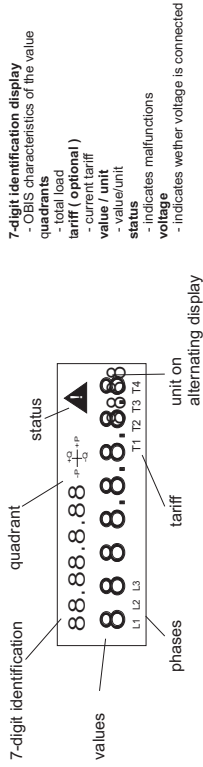
The EIB/KNX module stores all data every 15 minutes for one year and can be read out through a browser by TCP/IP via the EIB/KNX bus.

Technical Data

rated voltage	1x230V (3x230/400V) ± 10%
rated current Ib (Imax)	10 (85A)
rated frequency	50Hz ± 2%
protection class	IP 52
operating-/storage temp.	-40°C +70°C
consumption	current circuit 0,01 VA voltage circuit 0.5VA/0.1W
memory	>10 years without power supply
counter constant	1000 imp./kWh, kvarh

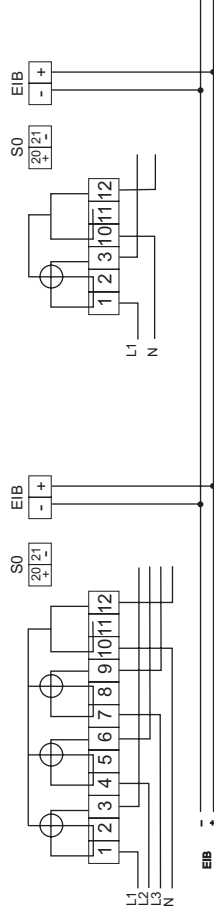
The total load must not cause overheating of the device!

Connection Diagrams



EZ382A-FW
3-phase, 4-wire

EZ162A-FW
single-phase, 2-wire



Terminals

input terminal cross section	1.5 - 25mm²
screws	PZ 2 or slotted
tightening torque	2.5 - 3 Nm
voltage tap cross section	0.25 - 1.5 mm² 5mm furcated cable lug
tightening torque	TORX Tx10 1Nm

Warnings

The device must only be installed and configured by a qualified and authorised professional!

Health and safety regulations have to be complied with!

Do not open the device!

The meters must only be used for measuring electrical energy, within its specified technical data range.

Seals must only be broken by authorised personnel.

A faulty device must be returned immediately to Lingg & Janke OHG!

KNX/EIB Configuration

The factory settings of the item do not feature any device or group addresses. The functions required are assigned when setting the parameters. During the planning phase with ETS, objects which are not assigned are not displayed either

Important:

The bus coupling unit used in the device requires the following to be installed before first-time use of the device:

For maximum operation:

- ETS 3 Professional version D or later
- personal computer / laptop with LAN access
- EIB-IP functions with NK-FW

The application program must always be fully downloaded to the device, **never partially**. Partial download of the program may lead to malfunctions

Approvals/Standards

approvals	standards
type test for	EN 50470-1
- positive active energy	EN 50470-3
- reactive energy and negative active energy	IEC 62052-11
	IEC 62053-21
	IEC 62053-23
miscellaneous	standard
terminal	DIN 43857
S0 pulse output	DIN 43864
OBIS/EDIS characteristics	IEC 62056-61

Certificates and approvals can be downloaded from www.lingg-janke.de.

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