

Product Information

Electricity Meters

EZ162C-FW / EZ382C-FW(REG)

Transformer Electricity Meter EZ351C-FW



KNX Smart Electricity Meters

Lingg&Janke's EZ162C-FW and EZ382C-FW(REG) electricity meters are direct-connection single phase or three phase meters for four quadrant measurement. The EZ351C-FW is a transformer electricity meter for all four quadrants.

The meters' display shows the respective directional values (meter reading, instantaneous power, etc.). The easy-to-read display changes automatically but you can also switch between the readings manually by pressing a pushbutton.

The fully electronic meters have no moving parts. Energy measurement is thus not affected by shock and the device's mounting orientation has no influence on the accuracy of the measurement.

The integrated KNX/EIB module stores the measured data every 15 minutes over a period of one year and provides full FacilityWeb capability. Every meter has its own home page. The meter readings can be read out directly via a network coupler using a standard Internet browser, or transmitted for further processing and billing purposes using FTP. Consistent communication based on the TCP/IP and KNX protocol is the key to fast and cost-effective acquisition of operating and energy consumption data.

- Full FacilityWeb functionality
- Minimum power consumption
- Integrated data logger with storage capacity for one year's consumption data
- HTTP protocol
- Compliant with MID requirements

KNX Electricity Meters

Beschreibung

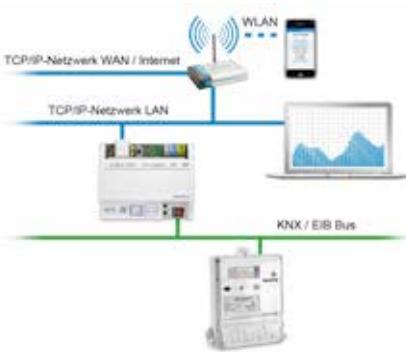
The electricity meters of the EZ series are direct-connection single phase (EZ162C-FW) and three phase (EZ382C-FW-X) meters for four quadrant measurement.

The transformer electricity meter (EZ351C-FW) is a three phase meter for four quadrant measurement. The fully electronic meters have no moving parts. The measurements via the measuring shunts are well shielded from magnetic interference and DC currents.

Smart Green Metering

Lingg&Janke's KNX electricity meters are energy efficient devices. With a power consumption of only 0.6 W, our meters offer the full spectrum of intelligent metering functions.

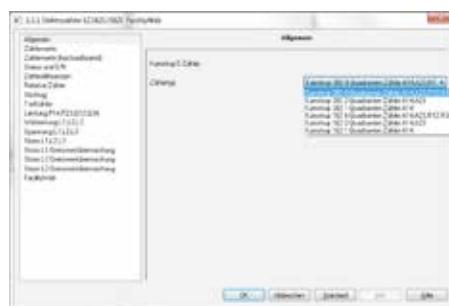
Storage of Consumption Data



The integrated KNX data logger stores the data at 15 minute intervals over a period of one year. The data can be read out directly via the NK-FW network coupler using a standard Internet browser. By using FTP, you can also download the stored data from the KNX module for further processing, for example with MS Excel or Flash / Silverlight. The application program offers up to 99 data points for further processing in the KNX bus. These include meter reading and overall active power as well as outputs, currents and voltages of the individual phases. The individual data can be transmitted cyclically to the KNX bus.

The consistent connection of the meters implemented through our NK-FW coupler is the basis for fast and cost-effective acquisition of operating data from a central point over a network / router.

Parameter Setting



Comprehensive parameters allow you to define the following outputs:

(type dependent)

- Meter value Active energy Delivery
- Meter value Active energy Infeed
- Meter value Reactive energy leading
- Meter value Reactive energy lagging
- High-resolution meter values
- Relative up counter Meter reading / Reset
- Relative down counter Meter reading / Set / Zero
- Output 15min / 60min Difference Active power
- Due date billing Date / Set
- Tariff 1/2 Active energy Delivery / Infeed
- Tariff 1/2 Reactive energy leading / lagging
- Tariff changeover
- Output Tariff number / Meter number / Serial number
- Meter status
- Output Current L1 L2 L3
- Output Voltage L1 L2 L3
- Output Active power delivery / infeed
- Output Reactive power leading / lagging
- Output Active power L1 L2 L3 (delivery)
- Limit monitoring Active power
2 thresholds each delivery / infeed
- Limit monitoring Reactive power
2 thresholds each leading / lagging
- Limit monitoring Active power L1 L2 L3
2 thresholds each
- Limit monitoring Voltage L1 L2 L3
2 thresholds each
- Limit monitoring Current L1 L2 L3
2 thresholds each
- Selection FacilityWeb log function
- Transformer ratio, cos Phi

Parameter Setting	
Energieverbrauch	Serial No. 0014102855
Kommunikation Friedsam	Meter No. 0014102855
04.02.2010	
1: active Energy A1d (kWh)	
2: active Energy A14 (kWh)	
5: 1/4h diff. active Energy (Wh)	
6: 1/4h max. Power (W)	
7: Tarif Number (1..8)	
8: Meter Status (0=ERR, 1=OK)	
04.02.10 08:15 0000022 0022349	83 1487 1 1
04.02.10 08:30 0000022 0022564	215 2408 1 1
04.02.10 08:45 0000022 0022689	124 1490 1 1
04.02.10 09:00 0000022 0022715	86 2111 1 1
04.02.10 09:15 0000022 0022940	164 2242 1 1
04.02.10 09:30 0000023 0023089	149 2952 1 1
04.02.10 09:45 0000023 0023238	149 2184 1 1
04.02.10 10:00 0000023 0023363	124 2086 1 1
04.02.10 10:15 0000023 0023502	139 2345 1 1
04.02.10 10:30 0000023 0023647	144 2281 1 1
04.02.10 10:45 0000023 0023767	120 2142 1 1
04.02.10 11:00 0000023 0023896	128 2252 1 1
04.02.10 11:15 0000024 0024037	141 2405 1 1
04.02.10 11:30 0000024 0024160	123 2183 1 1
04.02.10 11:45 0000024 0024312	151 2713 1 1
04.02.10 12:00 0000024 0024468	156 3734 1 1
04.02.10 12:15 0000024 0024593	125 1924 1 1
04.02.10 12:30 0000024 0024749	155 3017 1 1
04.02.10 12:45 0000024 0024897	148 2462 1 1
04.02.10 13:00 0000025 0025019	121 3120 1 1
04.02.10 13:15 0000025 0025159	140 1979 1 1
04.02.10 13:30 0000025 0025280	120 2250 1 1
04.02.10 13:45 0000025 0025408	128 1438 1 1
04.02.10 14:00 0000025 0025537	128 3047 1 1
04.02.10 14:15 0000025 0025652	115 2006 1 1
04.02.10 14:30 0000025 0025802	150 2156 1 1
04.02.10 14:45 0000025 0025927	124 2170 1 1

Technical Data

Nominal voltage

1x230V ±10% (EZ162)

3x230/400V ±10% (EZ382)

Nominal current Ib

5 (85A)

Power consumption (EZ382C-FW)

Electric circuit 0,01VA

Voltage circuit 0,5VA/0,2W per phase

KNX-module 0,2W

Nominal frequency

50Hz ±2%

Protection class

IP 52

Pulse output

1000 imp/kWh

Smart Metering Solutions



With KNX FacilityWeb interfaces, a wide variety of meters independent of manufacturer can be easily connected to the KNX standard.