

## Product Information

### KNX Smart Meter Elster / Itron Gas Meters



#### KNX Smart Gas Meters

Lingg & Janke KNX diaphragm gas meters are based on meters of the manufacturers Elster and Itron for which we provide the appropriate KNX interfaces.

The Elster gas meter uses an Absolute ENCODER register which allows direct read out of the meter readings by the KNX module. This greatly facilitates meter replacement as the meter reading and the serial number are read out automatically. The Lingg & Janke KNX module can be directly plugged on to the Elster gas meter.

The Itron gas meter uses its own Itron interface for reading out the meter reading and serial number. The Lingg & Janke KNX module is installed in an external surface-mounting enclosure.

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 / EEC / PTB / DVGW requirements

## KNX Gas Meters

### Description

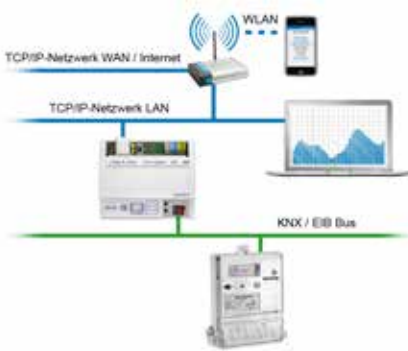
The gas meters are highly accurate multi-range meters for measuring the flow rate of natural gas, town gas and other non-aggressive gases.

The Absolute ENCODER AE2 register of the Elster diaphragm gas meters consists of a mechanical counter mechanism in which the individual positions of the 7 digit rollers are determined by opto-electric scanning. The resulting data are continuously transmitted via a digital interface to the connected KNX module. This technology ensures sustained transmission reliability compared with conventional pulse transmission

### Smart Green Metering

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

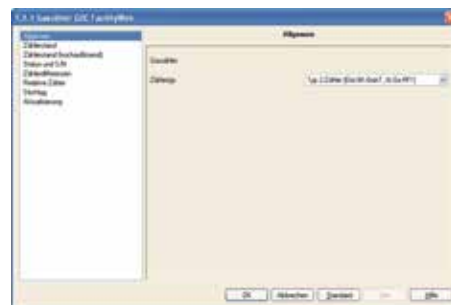
### Storage of Consumption Data



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/EIB module for further processing, for example with MS Excel or Flash / Silverlight. The application program offers 15 data points for further processing in the KNX/EIB bus. 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



The available parameters allow you to define the following outputs:

- Meter value (m³)
- High-resolution meter value (10 l)
- Meter status
- Serial number and meter number
- Relative up counter Meter value / Reset
- Relative down counter Meter value / Reset / Zero
- Output 15min / 60min difference (m³)
- Due date billing Date / Set

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knx-LogFile.txt
-----
Water Meter: Serial No. 0034448610
Hydrometer Flypper Meter No. 0034448610
Phys. Addr. 01-02-005

1: Volume (m3)
2: Volume (l)
3: rel. forward Counter (m3)
4: rel. reverse Counter (m3)
5: 1/4h diff. Volume (l)
6: 1/4h max. Flow (l/h)
7: Meter Status (0=ERR, 1=OK)

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16.01.11 00:00 0000186 0186317 0000010 0000020 0 0 6 1
16.01.11 00:15 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 00:30 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 00:45 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 01:00 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 01:15 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 01:30 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 01:45 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 02:00 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 02:15 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 02:30 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 02:45 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 03:00 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 03:15 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 03:30 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 03:45 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 04:00 0000186 0186316 0000010 0000020 3 350 1
16.01.11 04:15 0000186 0186316 0000010 0000020 0 0 0 1
16.01.11 04:30 0000186 0186316 0000010 0000020 0 0 0 1
16.01.11 04:45 0000186 0186316 0000010 0000020 0 0 0 1
16.01.11 05:00 0000186 0186317 0000010 0000020 1 413 1
16.01.11 05:15 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 05:30 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 05:45 0000186 0186317 0000010 0000020 0 0 0 1
16.01.11 06:00 0000186 0186317 0000010 0000020 98 1305 1
16.01.11 06:15 0000186 0186317 0000010 0000020 12 475 1
16.01.11 06:30 0000186 0186317 0000010 0000020 0 40 1
16.01.11 06:45 0000186 0186317 0000010 0000020 0 0 1
16.01.11 07:00 0000186 0186311 0000010 0000020 14 643 1
16.01.11 07:15 0000186 0186314 0000010 0000020 3 251 1
16.01.11 07:30 0000186 0186314 0000010 0000020 0 127 1
16.01.11 07:45 0000186 0186314 0000010 0000020 20 193 1
16.01.11 08:00 0000186 0186314 0000010 0000020 0 10 1
16.01.11 08:15 0000186 0186314 0000010 0000020 0 0 1
16.01.11 08:30 0000186 0186314 0000010 0000020 2 248 1
16.01.11 08:45 0000186 0186315 0000010 0000020 19 819 1
16.01.11 09:00 0000186 0186315 0000010 0000020 12 599 1
16.01.11 09:15 0000186 0186315 0000010 0000020 4 600 1
    
```

### Technical Data

#### Elster gas meter



Type	BK-GxA / AE2
Installation size	GA DN25
Measuring range	0,04-6 m³/h
Smart Meter	Absolute ENCODER AE2 Register

Other techn. data, see: [www.lingg-janke.de](http://www.lingg-janke.de)

#### Itron gas meter



Typ Gx-RF1	
Installation size	GA DN25
Measuring range	0,04-6 m³/h

Other techn. data, see: [www.lingg-janke.de](http://www.lingg-janke.de)

#### KNX bus coupler

Voltage	29 V KNX-Bus
Bus consumption	0,25 W

### Smart Metering Solutions



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