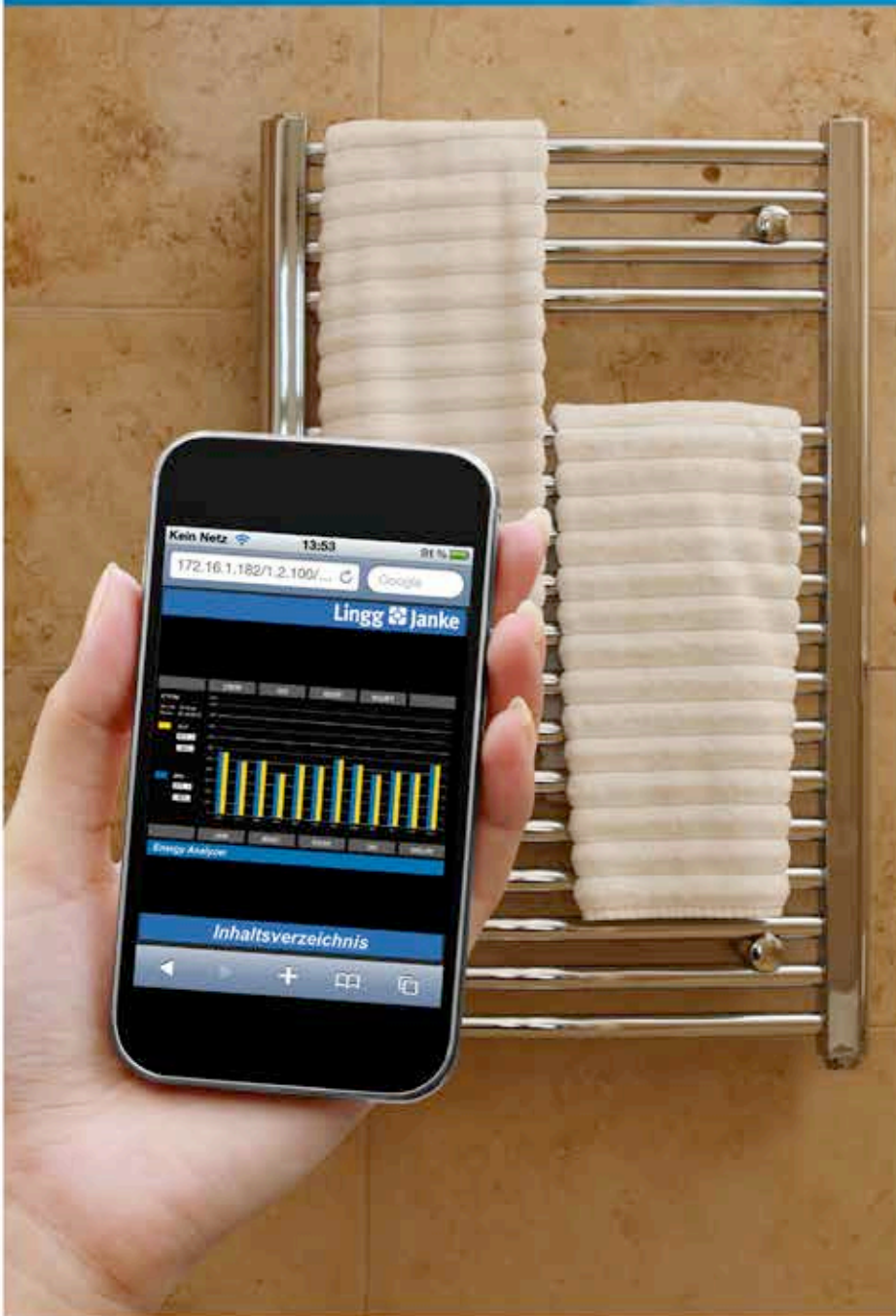


## Product Information

### KNX Smart Meter Heat Meters



#### KNX Smart Heat Meters

Lingg & Janke KNX heat meters are based on meters of the manufacturers Kamstrup and Zenner for which we provide the appropriate KNX interfaces.

The Kamstrup heat meter uses an ultrasonic sensor for measuring the flow rate. The Lingg & Janke KNX module is plugged directly into a slot on the meter.

The Zenner heat meter uses a vane wheel for measuring the flow rate. The Lingg & Janke KNX module is installed in an external surface-mounting enclosure.

The KNX module stores all measured data at 15-minute intervals over a period of one year and provides full FacilityWeb capability. Every meter has its own web 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 Smart Heat Meters

### Description

The heat meters are distinguished for their high measuring accuracy and long-term stability.

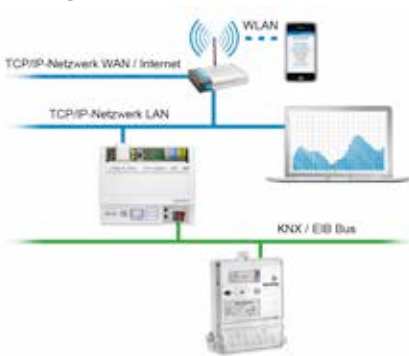
All metered and instantaneous values can be directly read off the electronic display by pressing a button.

Both types of meters are available with different nominal flow rates and threaded ports.

### Smart Green Metering

Lingg & Janke KNX heat meters are energy efficient devices. With a power consumption of only 0.25 W, our meters offer the full spectrum of intelligent metering functions.

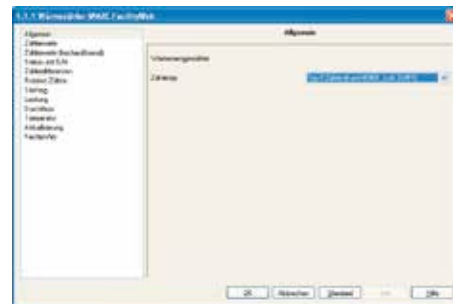
### Storage of Consumption Data



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 33 data points for further processing in the KNX/EIB bus. These include meter reading, volume, power output, flow rate and temperatures. 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 Settings



The available parameters allow you to define the following outputs:

- Meter value (MWh)
- High-resolution meter value (kWh)
- Meter value (m<sup>3</sup>)
- High-resolution meter value (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 (m<sup>3</sup>)
- Due date billing Date / Set
- Output power output, flow rate and temperatures T1, T2, deltaT
- Limit monitoring power output, flow rate and temperatures T1, T2, deltaT, 2 thresholds each

Heat Meter		Serial No.	0006411226
Kamstrup heat meter		Meter No.	0006411226
		Phys. Addr.	01.02.042
1: Energy (kWh)			
2: Volume (l)			
3: 1/4h diff. energy (kWh)			
4: 1/4h diff. Volume (l)			
5: 1/4h max. Power (kW)			
6: 1/4h max. Flow (l/h)			
7: Flow temperature (°C)			
8: return temperature (°C)			
9: Meter Status (0=ERR, 1=OK)			
05.01.11 00:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 00:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 00:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 00:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 01:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 01:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 01:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 01:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 02:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 02:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 02:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 02:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 03:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 03:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 03:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 03:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 04:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 04:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 04:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 04:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 05:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 05:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 05:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 05:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 06:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 06:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 06:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 06:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 07:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 07:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 07:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 07:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 08:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 08:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 08:30:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 08:45:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 09:00:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 09:15:00	0000870	0010310	0 0 0 0 96 22 1
05.01.11 09:30:00	0000870	0010310	0 0 0 0 95 22 1

### Technische Daten

#### Kamstrup heat meter



- Type: Multical 601 / Ultraflow
- Heat meter: with ultrasonic flow rate sensor
- Nominal flow rate: 0.6m<sup>3</sup>/h ... 10m<sup>3</sup>/h
- Smart Meter: integrated KNX bus coupler

#### Zenner Heat Meter



- Type: Zelsius
- Heat meter: with multi-jet flow rate sensor
- Installation size: GA DN25
- Nominal flow rate: 0.6m<sup>3</sup>/h ... 2.5m<sup>3</sup>/h
- Smart Meter: KNX bus coupler in ext. surface-mounting enclosure
- Other techn. data, see: [www.lingg-janke.de](http://www.lingg-janke.de)

### Smart Metering Solutions



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