

Product Information

KNX interface for Ferraris-meters with mechanical counters



Currently more than 90 % of the installed domestic energy meters in Germany are conventional electromechanical Ferraris-meters. The desired rollout of intelligent meters all over the country, according to political aims, will not happen in the foreseeable future because of latest cost-benefit ratio calculations and several open-end questions about interfacing etc..

KNX interface

With the direct reading optical KNX interface from Lingg & Janke it is even today possible to read out conventional mechanical counters and use the information for smart metering. Because of the compact dimensions of the interface it is possible to use it with a large variety of common meters.

The 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 homepage. The meter readings can be read out directly via a network coupler using a standard internet browser, or retrieved for further processing and billing purposes. Consistent communication based on the TCP/IP and KNX protocol is the key to fast and costeffective acquisition of operating and energy consumption data.

- full FacilityWeb functionality
- low energy consumption
- integrated data logger stores the measured data over a period of one year
- TCP/IP protocol

KNX interface for Ferraris-meters

With the direct reading optical KNX interface from Lingg & Janke it is even today possible to read out conventional mechanical counters and use the information for smart metering.



The optical sensor takes a picture of the counter every minute. This recorded meter reading gets translated via an identification algorithm to digital data.

KNX interface

The interface is composed of an optical sensor and a KNX module for DIN RAIL (EN 60715) mount. The KNX module stores the measured data every 15 minutes over a period of one year and provides full FacilityWeb capability.



The meter readings can be read out directly using a standard internet browser. For this purpose a network coupler is needed. Every meter has its own homepage.

Simple installation and implementing



The optical reading head can be operated at the touch of a finger. Via optical orientation assistance the interface can be positioned perfectly on the particular meter. The mechanical counting device of the meters is always readable.



Orientation assistance: adjust upwards



Orientation assistance: to the right



Orientation assistance: correct position!

Comfortable display of metering data



For the graphical presentation and evaluation of the metering data the network coupler "graphic" is needed. The consumption data can be displayed conveniently via computer or smartphone.

Smart Green Metering

The direct reading optical KNX interface from Lingg & Janke is an energy-efficient technology with a power consumption of only 0,35 W.

Technical specifications

- Optical sensor with LED lighting for recognition of counting devices, max. width 50 mm, min. height of numbers 5 mm
- Display 8-digit, 1 decimal place, announcement at the push of a button
- KNX module for DIN RAIL (EN 60715) mount. (overall width 2 units) with KNX bus terminal
- Integrated data logger stores the measured data over a period of one year
- TCP/IP protocol (in combination with a network coupler)
- Full FacilityWeb functionality
- Low energy consumption

