KNX INTERFACE

Features

- Interface for energy register and power measurements, etc.
- Communication in compliance with KNX standard for home and building control
- Configuration via ETS3
- Energy registers transmitted as float values (EIS9)
- Suitable for both single-phase and three-phase energy-meter
- 1 DIN module wide (18mm)

Additional communication modules for energy-meter

The KNX interface (1 module wide, DIN rail mount) is intended for connecting the energy meter to KNX bus. KNX bus is widely used for home and building control applications. The interface receives the measurement data from the energy meter by means of the infrared port available on the side of the energy meter itself, and gets the power supply from the bus. Only the bus wiring (twisted pair) must be connected, no additional wiring is required. The interface is suitable for both single-phase and three-phase energy-meter.

Configuration

The interface is provided with an application program to be imported in ETS3, in order to allow the configuration of the communication. ETS3 is the standard software for KNX systems configuration.

Measurements

All the active and reactive energy, voltage, current, active, reactive, apparent power, power factor, frequency registers available on the measuring instrument can be transmitted over the bus. Transmission modes are available: transmission on request, automatic transmission based on adjustable energy account increment (for instance a message every 10 KWh). Status bytes are available as well, containing information about the status of the energy meter and the load (load type, running Tariff, energy import or export and so on). (Some measurements and status information are available only on selected models).

Voltage limits

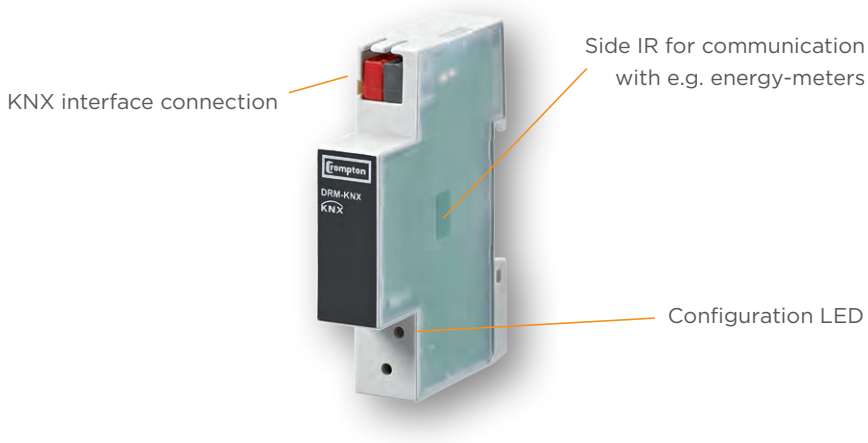
Upper and lower voltage limits can be set via ETS3. A warning message will be sent over the bus by the interface, in case the voltage value goes beyond the limits.

Energy reset

Commands can be sent via bus to the interface for resetting the energy accounts (enabled only on selected measuring instruments models).

1 standard module housing (18mm wide), suitable for DIN-rail mounting 35mm.

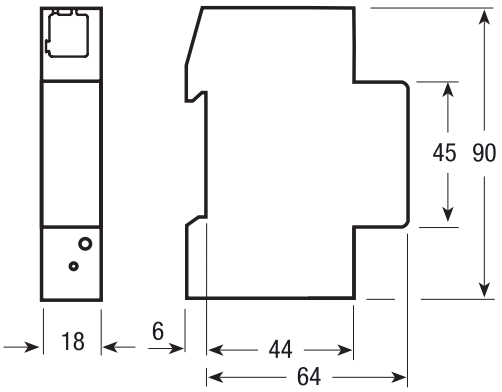
▶ KNX interface



Technical Data

Display		DRM - M
Power supply Power supply	-	through bus connection
Operating features Interface for energy register and power measurements		
Communication in compliance with KNX		
standard for home and building control		
Energy registers transmitted as float values (DPT 13. xxx)		
Power registers transmitted as float values (DPT 14. xxx)		
Status bytes available		
Energy account remote reset available (not active some energy-meters models)		
Suitable for both single-phase and three-phase Energy-meter, Network analyser and Power-meters	-	yes
Configuration via ETS3		
KNX interface HW interface	-	black/red terminals for connection to Twisted Pair type 1 (TP-1)
Bitrate	-	9600 bps
Interface to measuring instrument Hardware interface optical IR	n°	2 (Tx, Rx)
Environmental conditions Operating temperature	°C	-10 ... +55
Temperature of storage	°C	-25 ... +70
Relative humidity	%	≤80
Protection class acc.to EN 60664	-	II
Degree of protection housing when mounted	-	IP20

Product Codes

Description	Comm	DIN mod.	Part number
Optional communication interfaces	EIB-KNX	1	DRM-KNX

Dimensions