

Enertex® KNX SmartMeter²

Precise energy measurement with energy management

Innovative energy management for PV systems and flexible electricity tariffs to reduce your energy costs



NEW

Active energy is recorded with the highest precision and a maximum total measurement error of only 1 %.

This is achieved through high-quality current transformers of accuracy class 0.5 and precise, calibrated measurement data acquisition within the device itself, which also meets accuracy class 0.5s 0.5.

The active power measurement range is 1.2 W to 58 kW for the 85 A version and 12 W to 552 kW for the 800 A version.

The Enertex® KNX SmartMeter² is a bidirectional energy meter with an integrated energy management module.

The device is mounted on a DIN-rail (4 modules wide) and measures current via current transformers. It is available in two versions for currents up to 85 A or 800 A.

The supplied split-core current transformers allow easy installation. Measurement can be performed either in a three-phase system or in three independent single-phase systems and is suitable for all common grid types (TN, TT, and IT).

Quality made in Germany



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enertex[®] KNX SmartMeter²

- Three-phase bidirectional energy meter
- DIN-rail device with 4 module width and display
- Two versions available for different measurement ranges: 85 A per phase or 800 A per phase
- Current measurement via supplied split-core current transformers for easy clip-on installation
- Wide current measurement range: 5 mA to 85 A or 50 mA to 800 A
- High-precision current transformers and measurement acquisition: active energy with max. 1 percent measurement error (total error including current transformer error)
- Flexible use: suitable for TN, TT, and IT grids and also usable as 3 x single-phase meters
- Very low self-consumption: total max. 0.6 W
- Measured values: active, reactive, and apparent power, active and reactive energy, voltage, current, power factor, phase sequence direction, frequency, neutral current, THD, load imbalance
- Innovative energy management module to reduce energy costs:
 - Load management depending on PV feed-in power (to optimize PV self-consumption) or current price (for flexible electricity tariffs)
 - Ideal for managing EV wallboxes, electric vehicles, heat pumps, heating elements or infrared heaters, battery storage systems, and other household appliances
 - Staggered switching on and off of loads (up to 6 stages configurable)
 - Simple and user-friendly configuration
- Helpful commissioning and diagnostic functions via display and device buttons:
 - Display of current meter readings and past monthly and yearly end energy counters
 - Display of active power, voltage, phase sequence direction, and power factor for easy plausibility checks during commissioning
- Comprehensive energy and energy cost meters:
 - Configurable sub-meters for time-based visualization of energy consumption
 - Cost meters for determining energy costs and PV yield including price object for flexible tariffs
- Additional freely configurable logic block
- KNX Data Secure capable

Features

The device features a display for showing key measured values, meter readings, and parameters. Active power, voltage, phase sequence direction, and power factor enable quick plausibility checks after installation, helping to avoid typical wiring errors.

In addition, the display shows monthly end values for the last 12 months and yearly end values for the last 12 years, making the counter values easy to track at any time.



The integrated energy management module offers an innovative and especially simple way to reduce energy costs when using self-generated energy (for example PV) or flexible electricity tariffs.

Intelligent load management automatically switches loads when there is surplus energy or favorable electricity prices. Switching is based on freely definable threshold values for active power, electricity price, or other communication objects.

The module is ideal for controlling EV wallboxes, heat pumps, heating elements or infrared heaters, battery storage systems, and other household appliances.

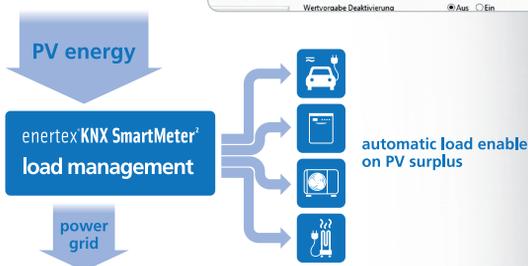


For each load, parameters such as priority, minimum runtime, dead time, releases per day, and blocking objects can be defined.

For load control, in addition to data types for switching, percentage values, power, current, and temperature setpoints, new standardized KNX data types for controlling heat pumps or heating systems (DHW mode, data types 20.XXX) are available.

Thanks to the intuitive and clear user interface, setting up energy management has never been easier.

Allgemein:	Bezeichnung für KIDs	E-Auto
Messungen:	Priorität	1
Energiezähler:	Minimalaufzeit	01:00 h:mm
Energiekosten:	Freigabe pro Tag (0=unbegrenzt)	2
Zwischenzähler:	Totzeit	00:30 h:mm
Energiemanagement:	Freigabe Sperrojekt	<input checked="" type="radio"/> Nein <input type="radio"/> Ja
Stufe 1:	Telegramm 1	Schalten (DPT 1.001)
	Wertvorgabe Aktivierung	<input type="radio"/> Aus <input checked="" type="radio"/> Ein
	Wertvorgabe Deaktivierung	<input checked="" type="radio"/> Aus <input type="radio"/> Ein



The new Enertex[®] KNX SmartMeter² combines highly precise energy measurement, easy commissioning, and user-friendly energy management in a single device.

*Errors and technical changes reserved.
Figures and photos may vary.

