

## Datasheet Eelectron KNX Single phase energy meter



### KNX Single phase energy meter compact

**Watt-hour meter for single-phase alternating current with backlit LCD display to show the values, an input for switching frequencies between 2 and direct connection to 80A. The values of the instantaneous value of the power KW / KVA h and meter reading for tariff 1 and 2 are sent via the KNX bus interface supplied.**

Technical data:	
<b>Functionality</b>	Connection to single-phase alternating current two-core Rates for active energy and reactive energy no. 2 – T1 or T2
<b>Power supply</b>	
Power supply	230V AC
Operating voltage range	180V AC, 276V AC
Rated frequency	50 Hz
Power consumption	Max. 8 VA – 0.6 W
<b>Overload</b>	
	Continuous voltage Un 276V / short-term (1s) 300V Continuous current I <sub>max</sub> 80A / short-term (10ms) 2400A
<b>Measured data</b>	
	At 23 +/- 1°C see nominal values Reference standard for active energy according to EN 50470-3 activ +/- 1% classe 1 (B) Reactive power output pulse according to EN 62053-23 +/- 2 %
Measuring inputs	Type of connection/W-direct, current range (actual-I <sub>max</sub> ) Direct connection: 0.025..80 A
Frequency	50 Hz, input waveform, sinusoidal. Minimum current for energy measurement 25 mA
<b>Pulse output SO</b>	
	According to EN 62053-31, pulse output for active energy and reactive energy Pulse number 1000 imp/kWh, 30+/- 2 ms Pulse duration Required energy min. (max.) VAC (DC) 5..230 +/- 5% (5..300 +/-5%) Permissible current pulse ON (max. 230 V AC/DC) 90 mA Permissible current pulse OFF (Kriechstrom max. 230 V AC/DC) 1µA
Optical interface	Front calibration (fine control) LED imp/kWh 1000
Adapter for connection	EIB/KNX EIB- standad – up to 9600 bps
<b>Environmental conditions</b>	
Transport an storage temperature	-25°C bis +70°C
Operating temperatur	-10°C bis +55°C
Relative humidity	Max. 80% (non-condensing)
Oscillations 50 Hz Sine wave amplitude mm+/- 0.075. The appliance is intended for use in closed and dry rooms.	
<b>Dimensions</b>	
Housing / Depth	Enclosure 3 modules DIN 43880, 70 mm
Mounting	35 mm rail DIN EN 60715

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\*Warranty ex works, normally 24 months, fixed at order. Information is current as of the date of publication. Subject to errors and modifications. NOTE: Internal connections refer to connections inside the unit, generally mounted across a pin-header. External connections refer to those outside the box. Once mounted, only connections described as „front accessible“ can be accessed by the customer.