

EZ-0320.01

KNX Energy meter 3-channel 20 A, direct measurement, 4 SU MDRC, 230/400 V AC



Product description:

The MDT Energy Meter EZ measures both consumed and generated energy (e.g., from a photovoltaic system). In addition to simple current and active power measurement, the actuator registers the consumption costs and yields of the generated energy per main and intermediate meter. Direct measurement by connecting the current-carrying lines to the actuator.

Product functions:

- **3-phase bidirectional meter for active energy**
- **Energy Meter for single-phase or three-phase circuits**
- Measurement of the effective-/reactive and apparent power, voltage, current and power factor cos phi
- **Separate metering of energy, consumed from and supplied to the grid (kWh)**
- **Integrated True RMS current measurement**
- **Current measurement range 10 mA ... 20 A**
- **Threshold switch (1 Byte/2 Byte/2 Byte float)**
- Main and intermediate meter
- 4 mm² connection terminals
- Fast application download (long frame support as of ETS 5)

Technical data:

Device	Device type	EZ Energy Meter
	Article Number	EZ-0320.01
	EAN / GTIN	4251916130732
	Installation width	4 SU / 72 mm
	Dimensions (H x W x D)	90 x 72 x 65 mm
	Weight, gross (incl. packaging)	0.181 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.154 kg
	Number of channels	3
Performance data	Nominal voltage U_n	230 V AC
	Nominal current I_n (per output)	20 A
	Nominal frequency	50 Hz
	Power dissipation of the device, typical	≤ 3 W
Currents	Measuring principle	Direct measurement
	Current measuring range	10 mA ... 20 A
	Measurement accuracy, typical	2 % ^{*1}
	Sampling rate	2000 measurements / 500 ms
KNX	Nominal voltage KNX	30 V DC SELV
	Voltage range KNX	21 ... 31 V DC SELV
	Typical power consumption KNX bus	< 0,3 W
	KNX Medium	TP-256 with long frame support
	KNX Application	as of ETS 5 (latest)
Environmental conditions	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
	Condensation permissible	No
Connections	Connection type	Screw terminal with slotted head
	Conductor cross section 1 x	0,5 ... 4 mm ²
	Screw terminal tightening torque	0.5 Nm
	KNX connection type	KNX terminal
	KNX cable cross section	0.6 ... 0.8 mm, solid conductor

^{*1} Applicable for currents > 30 mA. Strong inharmonic loads may cause a measurement deviation.

Wiring diagram:

