MDT Energy Meter EZ

MDT Energy Meter 3-phase bidirectional, MDRC

Ausführungen		
EZ-0320.01	3-phase bidirectional Energy Meter	4 SU MDRC, 230 / 400 V AC, direct current measurement up to 20 A
EZ-0363.01	3-phase bidirectional Energy Meter	4 SU MDRC, 230 / 400 V AC, transformer measurement up to 63 A

The MDT energy meter records the actual consumption values in single- or three-phase circuits. Based on the application setting, the values of active/reactive/apparent power, the current/voltage values and the power factor cos phi can be transmitted to the KNX bus. The values of consumed and supplied energy are recorded separately by the energy meter (kWh). The values of active power and current are recorded when the supplied energy is measured.

The energy meter is available in two versions, for direct current measurement up to 20 A (EZ-0320.01) or with indirect current transformer measurement up to 63 A (EZ-0363.01). The three compulsory cable connected current transformers for a fast and easy fold-over installation are included in the delivery of the EZ-0363.01.

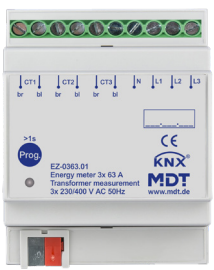
The energy meter can be used as a main and intermediate meter. The recorded measured values can be transmitted on to the KNX bus and displayed on a respective push-button (e.g. MDT Push-button Smart, Glass Push-button II Smart) or a KNX visualisation (e.g. MDT Visucontrol Easy).

The Energy meter is intended for installation on a 35 mm DIN Rail in a distribution board. The installation must be conducted in dry indoor rooms.

For project design and commissioning of the MDT Energy meter the ETS is a requirement. You will find the database on our website, www.mdt.de/Downloads.html

EZ-0320.01

EZ-0363.01



- Production in Germany, certified according to ISO 9001
- **3-phase bidirectional meter for active energy**
- **Energy meter for single-phase or three-phase circuits**
- **3 cable mounting-current transformers 63 A included for a fast fold over installation (Only EZ-0363.01)**
- Measurement of active / reactive and apparent power, voltage, current and power factor cos phi (when measuring the consumption)
- Separate recording of energy consumption and fed-in energy (kWh)
- Integrated True RMS current measurement (amperage, kW)
- Current measurement range 10 mA bis 20 A (EZ-0320.01)
- Current measurement range 30 mA bis 63 A (EZ-0363.01)
- Threshold switch (Byte / 2 Byte / 2 Byte float)
- Main and intermediate counter
- 4 mm² / 2x2.5 mm² connection terminals
- Fast application download (long frame support from ETS 5)
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

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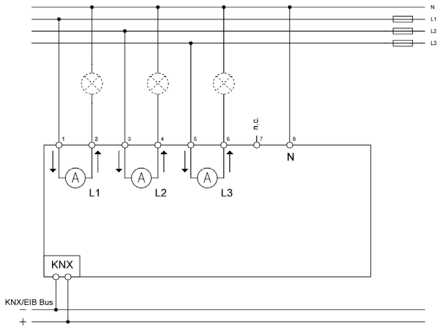
Stand: 0922

MDT Energy Meter EZ

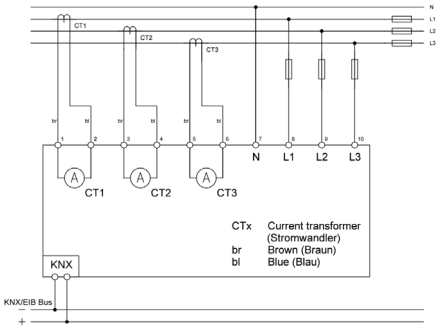
Technische Daten	EZ-0320.01	EZ-0363.01
Number of measurement channels	3	3
Measurement principle	Direct measurement	Current transformer measurement
Quantity of supplied current transformers	--	3 (TYPE MDT EZ-063TRA) *
Current measurement range	10 mA - 20 A	30 mA - 63 A
Measurement accuracy typ.	2% **	2% ***
Scanning rate	2000 Measurements / 500 ms	2000 Measurements / 500 ms
Voltage	230 / 400 V AC	230 /400 V AC
Specification KNX interface	TP-256 with long frame support from ETS 5/6	
Available KNX database	ETS 5/6	ETS 5/6
Max. wire cross-section		
Screw terminal	1 x (0,5 - 4,0 mm²) 2 x (0,5 - 2,5 mm²)	1 x (0,5 - 4,0 mm²) 2 x (0,5 - 2,5 mm²)
KNX Bus connector	0,8 mm Ø, rigid core	0,8 mm Ø, rigid core
Tightening torque of screw terminal	0,5 Nm	0,5 Nm
Power supply voltage	KNX Bus	KNX Bus
Power consumption KNX Bus typ.	< 0,3 W	< 0,3 W
Ambient temperature range	0 to + 45°C	0 to + 45°C
Protection classification	IP 20	IP 20
Dimensions MDRC (Space Units)	4 SU	4 SU

* Use only the current transformers delivered with the product MDT EZ-0636.01. In the MDT current transformer an “Open Protect” function is integrated. The cable length of the current transformers is 650 mm and must not be extended.
** Applicable for currents > 30 mA. The measuring accuracy may deviate in the case of strong inharmonic loads.
*** Applicable for currents > 100 mA. The measuring accuracy may deviate in the case of strong inharmonic loads.

Examplary circuit diagram EZ-0320.01



Examplary circuit diagram EZ-0363.01



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