

DATA SHEET: ELECTRONIC 3-PHASE METER DIZ



SCHRACK-INFO

The DIZ is a meter for measuring positive and optional negative active energy. It is available in a 1- or 2-tarif version. The compact design of this meter allows „space saving“ mounting. The direct-connection design of the DIZ is prepared for connection to 3- or 4 Phase busbars.

- Class 2, optional Class 1
- LC-Display
- 1 or 2 tarif register
- Electrical interface M-Bus, LON, RS485 (option)
- Only 6 pitch wide
- MID calibration

TECHNICAL DATA

		DIRECT CONNECTED METER 5(65)A	TRANSFORMER OPERATED METER 5(11)A
Rated current		3x230/400V	3x230/400V
Voltage	4-wire		
Frequency		50Hz	
Accuracy	active energy	class 1 or 2 according to IEC 62053-21 P+ (with non-reverse ratchet)	
Impulse	LED (Imp./kWh)	1.000	10.000
Max. current transformer		sek. 5A	4000A (factor 800)
Tarif	max. number number of control-input: 1	1 tarif register (T1), option: 2 tarif register (T1 / T2), systemvoltage 58.....230V AC	
Data retention time		without voltage in the FLASH / EEPROM, at least 20 years	
Display	LC-Display	8 digits, 3 with decimals digits 8 digits, digit size in the value range 4 x 6 mm	
Operation		mechanical button for operation of display	
Energy supply		switched-mode power supply , 3-phase from the measuring voltage	
Power consumption	voltage path	< 2.0 VA / < 1.0 W	< 2.0 VA / < 1.0 W
per phase	current path	< 0.5 VA < 2.5 VA	< 1.0 VA < 0.5 VA
EMC-characteristics	isolation resistance	Isolation: 4 kV AC, 50 Hz, 1 min	
	surge voltage	EMC: 4 kV, Impulse 1.2/50 µs, 2 Ω	
		ISO: 6 kV, Impulse 1.2/50 µs, 500 Ω	
		10 V/m (under load)	
Temperature range	resistance against HF-fields	-25°C...+55°C / -40°C...+70°C	
Relative humidity	operation / limit and storage	90% at 40°C, non-condensing	
Connection-cross section	current / neutral conductor	maximum 16 mm ²	maximum 4 mm ²
	voltage / auxiliary terminals	maximum 2.5 mm ²	maximum 2.5 mm ²
Housing	dimensions	6 pitch = 107.5 x 89.5 x 64.2 mm (B x H x D)	
	class of protection	2	
	degree of protection housing /terminal block	IP 20	
	housing material	polycarbonate	
	fire characteristics	flame-inhibiting (without halogen)	
	weight	approx. 400 g	
Further features		measuring of instantaneous values of power, voltage and current	
Calibration		The meter can be connected to a 3- or 4-phase busbar with left-sided N connection. The kWh-meter is MID-calibrated, if the editor-menus is not resettable closed with the inout "close".	

TECHNICAL DATA (continued)

ELECTRICAL DATA INTERFACE

kWh meter with impulse - output	Output (option) number maximum 1, Opto-MOSFET maximum 250 V AC/DC, 100 mA for impulse transmission (fulfils S0-specifications)
	5(65) A: 1.000...2.000 Imp./kWh
	5(11) A, 1A: 100...5.000 Imp./kWh
kWh meter with M-Bus-interface	Data protocols: Accord. to DIN EN 13757-2, -3
	Baud rate: 300, 2400, 9600 baud
	Datas: <ul style="list-style-type: none"> - Manufacturer identification, as an option freely selectable - Medium - Primary- and secondary addresses M-Bus - Energy values - Instantaneous value PSum - Error status
kWh-meter with LON interface	Data protocols: Accord. to DIN EN 14908
	Datas: In the DIZ a galvanically isolated FTI-10A transceiver is used.
	<ul style="list-style-type: none"> - Energy values - Instantaneous values PSum; single phases P, U and I - Error status - Transformer factors from U and I
kWh-meter with RS485 interface	Data protocols: Designed in accordance with TIA/EIA-485 / ITU-T V.11
	Datas: The data protocol is the M-Bus protocol.
	<ul style="list-style-type: none"> - Manufacturer identification, as an option freely selectable - Medium - Primary- and secondary addresses M-Bus - Energy values - Instantaneous values PSum Error status - Error status

DESCRIPTION	ORDER NO.
Digital CT-kWh-meter x/5A, 3phase	MGDIZ005
Digital CT-kWh-meter x/5A, 3phase, 2 tariffs	MGDIZ005-Z
Digital kWh-meter 65A direct, 3phase	MGDIZ065
Digital kWh-meter 65A direct, 3phase, 2 tariffs	MGDIZ065-Z
Digital CT-kWh-meter x/5A, 3phase, with RS485 interface	MGDIZ205
Digital CT-kWh-meter x/5A, 3phase, 2 tariffs, with RS485 interface	MGDIZ205-Z
Digital kWh-meter 65A direct, 3phase, with RS485 interface	MGDIZ265
Digital kWh-meter 65A direct, 3phase, 2 tariffs, with RS485 interface	MGDIZ265-Z
Digital CT-kWh-meter x/5A, 3phase, with M-Bus interface,	MGDIZ305
Digital CT-kWh-meter x/5A, 3phase, with M-Bus interface, 2 tariffs	MGDIZ305-Z
Digital kWh-meter 65A direct, 3phase, with M-Bus interface	MGDIZ365
Digital kWh-meter 65A direct, 3phase, with M-Bus interface, 2 tariffs	MGDIZ365-Z
Digital CT-kWh-meter x/5A, 3phase, with LON interface,	MGDIZL05
Digital CT-kWh-meter x/5A, 3phase, with LON interface, 2 tariffs	MGDIZL05-Z
Digital kWh-meter 65A direct, 3phase, with LON interface	MGDIZL65
Digital kWh-meter 65A direct, 3phase, with LON interface, 2 tariffs	MGDIZL65-Z