

Following meter types are available on stock:

Impulse meter	DIZ-W1E4-00-KM0-00-200000-E50/K	DIZ-W1EL-00-KM0-00-200000-E50/K
Voltage	3x230/400 V	3x230/400 V
Current	5 1 A / 1(6) A	5(65) A / 0,25-5(65) A
Features	pulse output, 1-tariff version	
Output OptoMOSFET certified / with Declaration of Conformity of MID	fixed: 1 000 Imp./kWh, 100 ms adjustable, factory setting: 1 000 Imp./kWh, 100 ms	fixed: 100 Imp./kWh, 100 ms adjustable, factory setting: 100 Imp./kWh, 100 ms
Display digitness	5,3	8,0

M-Bus-Zähler	DIZ-W1E4-00-KM0-0M-200010-E50/K	DIZ-W1EL-00-KM0-0M-200010-E50/K
Voltage	3x230/400 V	3x230/400 V
Current	5 1 A / 1(6) A	5(65) A / 0,25-5(65) A
Features	pulse output, 2-tariff version, M-Bus	
Output OptoMOSFET certified / with Declaration of Conformity of MID	fixed: 1 000 Imp./kWh, 100 ms adjustable, factory setting: 1 000 Imp./kWh, 100 ms	fixed: 100 Imp./kWh, 100 ms adjustable, factory setting: 100 Imp./kWh, 100 ms
Display digitness	5,3	8,0
M-Bus-settings	2400 baud, primary address = 001, secondary address = serial number	

DIZ

- ✓ For industrial applications and billing purposes
- ✓ Compact design (6 pitch), available for busbar
- ✓ 1-/2-tariffs, optionally as a bidirectional meter
- ✓ Bus capable: M-Bus-, LON- or RS485 interface
- ✓ Transformer ratio settable on location
- ✓ Secondary or primary impulse output
- ✓ Optionally with battery for readout without power
- ✓ **With EC type-examination certificate** acc. to directive 2004/22/EC (MID = Measuring Instrument Directive)



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Digital Industry Meter - DIZ

		Transformer connected meter 5 1 A / 1(6) A and 1 A / 1(1,2) A	Direct connected meter 5(65) A / 0,25-5(65) A
Voltage	4-wire meter 3-wire meter 2-wire meter	3x230/400 V, 3x290/500 V, 3x58/100 V, 3x63/110 V 3x100 V, 3x110 V, 3x230 V, 3x400 V, 3x500 V 1x58 V, 1x63 V, 1x100 V, 1x110 V, 1x230 V	3x230/400 V, 3x290/500 V 3x230 V, 3x400 V, 3x500 V 1x230 V
Starting current		2 mA	20 mA
Frequency		50 Hz, 60 Hz, 16,7 Hz	
Accuracy	active energy	Cl. 1 or Cl. 2 accord. to IEC 62053-21 Cl. B or Cl. A accord. to EN 50470-1, -3	
Measuring types	active energy	+A (with non-reverse ratchet), optional: -A	
Meter constants	LED primary output secondary output configuration ability certified version uncertified version with Declaration of Conformity of MID	1 000...400 000 Imp./kWh (depending on meter type) 1 Imp./kWh (fixed, pulse length 500 ms) 100...200 000 Imp./kWh (depending on meter type)	1 000...2 000 Imp./kWh (depending on meter type) --- 10...2 000 Imp./kWh (depending on meter type)
		fixed parameterisation settable via mechanical button settable via mechanical button (lockable for billing purposes)	
Energy registers	number	maximum 2 tariff register (T1 / T2) for each energy direction	
Control inputs for tariff switching (option)	number system voltage	maximum 1 58...230 V AC	
Data retention time		without voltage in the EEPROM, at least 20 years	
Display	LC-Display digit size in the value range	8 digits, 3 with decimals digits 4 x 6 mm	8 digits 4 x 6 mm
Operation	mechanical button	for operation of display	
Data interfaces (optional)	M-Bus LON RS485	accord. to DIN EN 13757-2, -3 (300...9600 baud) accord. to DIN EN 14908-1, -2, -3, -4 accord. to TIA/EIA-485 and ITU-T V.11 (300...9600 baud)	
Output (optional)	number OptoMOSFET S0-output	maximum 1 maximum 250 V AC/DC, 100 mA for impulse transmission (fulfils S0-specifications) maximum 27 V DC, 27 mA (passive)	
Energy supply	switched-mode power supply	3-phase from the measuring voltage	
Power consumption per phase	voltage path current path	< 2,0 VA / 1,0 W < 0,5 VA	< 2,0 VA / 1,0 W < 2,5 VA
EMC-characteristics	isolation resistance surge voltage resistance against HF-fields	Isolation: 4 kV AC, 50 Hz, 1 min 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	specified operating range limit range for operation, storage and transport	-25°C...+55°C -40°C...+70°C	
Relative humidity		95%, non-condensing accord. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30	
Housing	dimensions class of protection degree of protection housing degree of terminal block housing material fire characteristics	6 pitch = 107,5 x 89,5 x 64,2 mm (B x H x D) II IP 20 IP 20 polycarbonate glass-fibre-reinforced, without halogen, recyclable accord. to DIN EN 62052-11	
Weight		approx. 400 g	
Connection-cross section	current- / neutral terminals voltage- / additional terminals	maximum 4 mm² maximum 2,5 mm²	maximum 16 mm² maximum 2,5 mm²
Further features		buffer battery for reading the display without power (option) measuring of instantaneous values of power, voltage and current The meter can be connected to a 3- or 4-phase busbar with left-sided N connection. The busbars are suitable e.g. for automated devices from AEG, Siemens, Moeller, Hager and Geyer.	

Product specifications are subject to change without notice!

Settable pulse constants and pulse lengths depending on the meter type

Transformer connected meter 5 1 A / 1(6) A	Pulse constants	Pulse lengths
4-wire meter	290/500 V, 230/400 V	100, 200, 500, 1 000 , 2 000 Imp./kWh 5 000 Imp./kWh 10 000 Imp./kWh
4-wire meter	63/110 V, 58/100 V	100, 200, 500, 1 000, 2 000, 5 000, 10 000 Imp./kWh 20 000 Imp./kWh
3-wire meter	500 V	100, 200, 500, 1 000 , 2 000 Imp./kWh 5 000 Imp./kWh
3-wire meter	400 V	100, 200, 500, 1 000 , 2 000 Imp./kWh 5 000 Imp./kWh 10 000 Imp./kWh
3-wire meter	110 V, 100 V	100, 200, 500, 1 000, 2 000, 5 000, 10 000 Imp./kWh 20 000 Imp./kWh
2-wire meter	230 V	100, 200, 500, 1 000 , 2 000, 5 000, 10 000 Imp./kWh 20 000 Imp./kWh
2-wire meter	110 V	100, 200, 500, 1 000, 2 000, 5 000, 10 000 , 20 000 Imp./kWh 50 000 Imp./kWh
2-wire meter	100 V	100, 200, 500, 1 000, 2 000, 5 000, 10 000 , 20 000 Imp./kWh 50 000 Imp./kWh

Transformer connected meter 1 A / 1(1,2) A	Pulse constants	Pulse lengths
4-wire meter	63/110 V, 58/100 V	1 000, 2 000, 5 000, 10 000, 20 000, 50 000 Imp./kWh 100 000 Imp./kWh 200 000 Imp./kWh

Direct connected meter 5(65) A / 0,25-5(65) A	Pulse constants	Pulse lengths
4-wire meter	290/500 V	10, 100 , 200 Imp./kWh 500 Imp./kWh
4-wire meter	230/400 V	10, 100 , 200 Imp./kWh 500 Imp./kWh 1 000 Imp./kWh
3-wire meter	500 V	10, 100 , 200 Imp./kWh 500 Imp./kWh
3-wire meter	400 V	10, 100 , 200 Imp./kWh 500 Imp./kWh 1 000 Imp./kWh
2-wire meter	230 V	10, 100 , 200, 500, 1 000 Imp./kWh 2 000 Imp./kWh

The bold highlighted values are the factory settings of the meters!