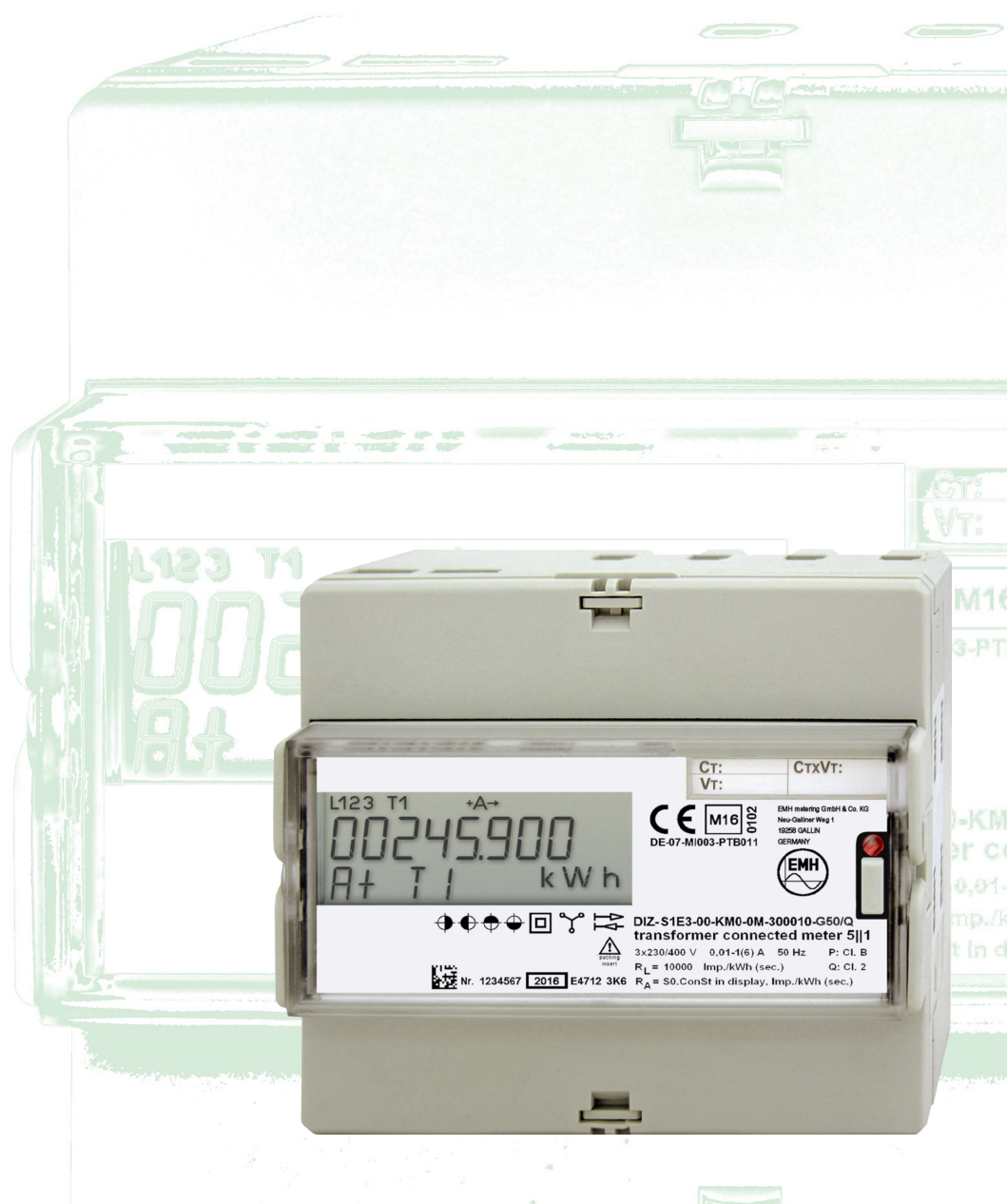


# DIZ generation G

- ✓ For industrial applications and billing purposes
- ✓ Compact design (6 DIN modules)

Options:

- ✓ Reactive energy (4-Quadrant meter)
- ✓ Bidirectional meter with up to 4 tariffs
- ✓ Communication via M-Bus, LON®, SML or Modbus-RTU®



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# Digital Industry Meter - DIZ generation G

		Transformer connected meter 1(6) A or 5(6) A	Direct connected meter 0,25 - 5(65) A, 0,25 - 5(80) A or 0,5 - 10(65) A
<b>Voltage</b> (IEC 62052-11)	4-wire meter	3 x 58/100 V, 3 x 63/110 V, 3 x 230/400 V, 3 x 290/500 V	3 x 230/400 V, 3 x 254/440 V
	3-wire meter	3 x 100 V, 3 x 110 V, 3 x 230 V, 3 x 400 V, 3 x 500 V	3 x 230 V, 3 x 400 V, 3 x 500 V
	2-wire meter	100 V, 230 V	230 V
<b>Starting current</b>		2 mA	20 mA
<b>Frequency</b>		50 Hz, 60 Hz, 16,7 Hz	50 Hz, 60 Hz
<b>Accuracy</b>	active energy reactive energy	Cl. B or Cl. A acc. to EN 50470-1, -3 (Cl. 1 or Cl. 2 acc. to IEC 62053-21) Cl. 2 or Cl. 3 acc. to IEC 62053-23	
<b>Measuring types</b>	active energy reactive energy	+A, -A +R, -R	
<b>Meter constants</b>	LED	10 000...100 000 Imp./kWh (depending on meter type)	1 000...2 000 Imp./kWh (depending on meter type)
	primary output	1...1 000 Imp./kWh (depending on meter type, pulse length 100 or 500 ms)	---
	secondary output	100...100 000 Imp./kWh (depending on meter type, pulse length 30, 50 or 100 ms)	1...1 000 Imp./kWh (depending on meter type, pulse length 30, 50, 100 or 500 ms)
	configuration ability certified version with Declaration of Conformity of MID	fixed parameterisation settable via mechanical button (lockable for billing purposes)	
<b>Energy registers</b>	number	max. 4 tariff register + 1 tariffless register for energy direction +P and -P; max. 2 tariff register + 1 tariffless register for each energy direction (+P, -P, +Q and -Q)	
<b>Load profile</b>	number of channels typical memory depth at 1 channel registering period registering type	max. 4 12 000 entries 5, 10, 15, 30, 60 min state of energy register	
<b>Real Time Clock</b>	accuracy synchronisation	within ± 5 ppm via data interface or line commutation	
<b>Control input</b>	running reserve Goldcap number low voltage/system voltage	max. 10 days (240 hours) max. 1 for external tariff switching	
<b>Data retention time</b>		without voltage in the FLASH-ROM, at least 20 years	
<b>Display</b>	LC display digit size in the value range reading without power supply (optional)	8 digits 3,4 x 6,8 mm by buffer battery	
<b>Operation</b>	mechanical button	for operation of display	
<b>Data interface (optional)</b>	M-Bus RS485	acc. to EN 13757-2, -3 (300...9600 baud) protocols: M-Bus, SML (Smart Message Language) or Modbus-RTU® (Remote Terminal Unit) acc. to ISO/IEC 14908-1, -2, -3, -4	
<b>Outputs (optional)</b>	LON® number Opto-MOSFET S0-output	max. 2 max. 250 V AC/DC, 100 mA for impulse transmission (fulfils S0-specifications) max. 27 V DC, 27 mA (passive)	
<b>Energy supply</b>	switched-mode power supply	3-phase from the measuring voltage	
<b>Power consumption per phase</b>	voltage path current path	< 2,0 VA/1,0 W < 0,5 VA	< 2,0 VA/1,0 W < 2,5 VA
<b>EMC-characteristics</b>	isolation resistance surge voltage	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)	
<b>Temperature range</b>	resistance against HF-fields specified operating range limit range for operation, storage and transport	-25 °C...+55 °C -40 °C...+70 °C	
<b>Relative humidity</b>		max. 95 %, non-condensing, acc. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30	
<b>Housing</b>	dimensions class of protection degree of protection housing degree of terminal block housing material fire characteristics	6 modules (acc. to DIN 43880) = 107,5 x 89,5 x 64,0 (W x H x D) mm II IP 20 IP 20 polycarbonate glass-fibre reinforced, without halogen, recyclable acc. to IEC 62052-11	
<b>Environmental conditions</b>	mechanical electromagnetic intended location	M1 acc. to Measuring Instruments Directive (2014/32/EU) E2 acc. to Measuring Instruments Directive (2014/32/EU) indoor acc. to EN 50470-1	
<b>Weight</b>		approx. 450 g	
<b>Connection cross section</b>	current or neutral terminals voltage or additional terminals	max. 4,0 mm <sup>2</sup> (max. 2,5 mm <sup>2</sup> acc. to IEC 60999-1) max. 2,5 mm <sup>2</sup>	max. 25,0 mm <sup>2</sup> (max. 16,0 mm <sup>2</sup> acc. to IEC 60999-1) max. 2,5 mm <sup>2</sup>
<b>Further features</b>	measuring of instantaneous values installation check buffer battery (optional)	powers, voltages, currents, neutral conductor current, frequency via instantaneous values (service data) possible integrated buffer battery for reading the display without power	

Product specifications are subject to change without notice!

