



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

Product specifications are subject to change without notice!

