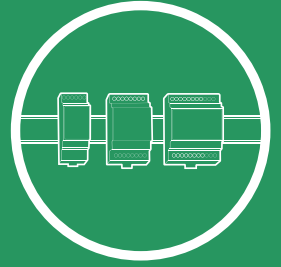
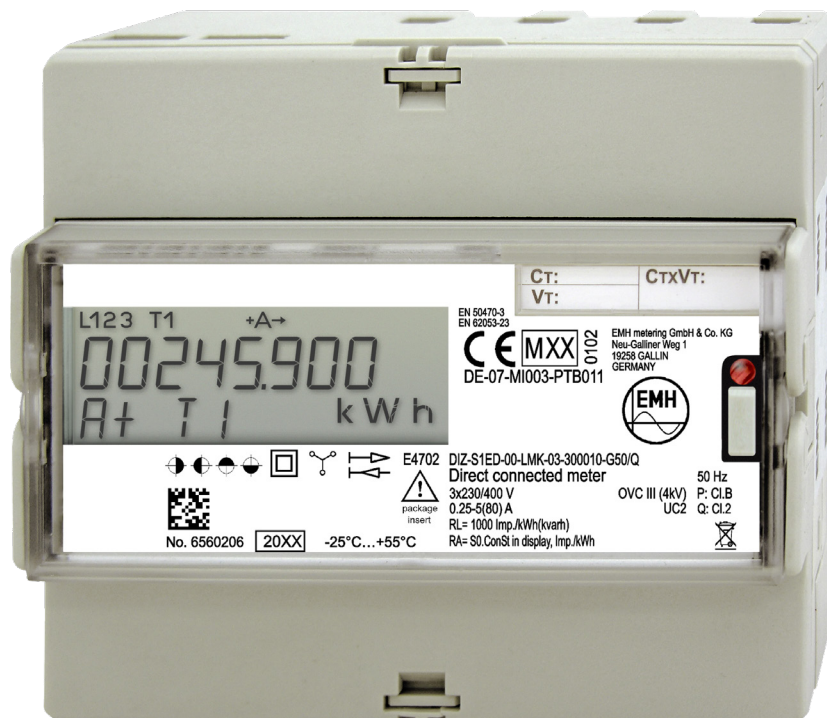


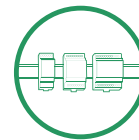
DIZ-G



DIGITAL INDUSTRIAL METER

- For industrial applications and invoicing purposes
- COMPACT DESIGN (6HP)
- OPTIONAL:
 - Reactive energy (4-quadrant meter)
 - Two-direction meter with up to 4 tariffs
 - Communication via M-Bus, SML or Modbus-RTU





DIZ-G

DIZ-G		Transformer connected meter	Direct connected meter
Voltage	4-wire meter 3-wire meter 2-wire meter	3 × 58/100 V, 3 × 63/110 V, 3 × 230/400 V, 3 × 290/500 V 3 × 100 V, 3 × 110 V, 3 × 230 V, 3 × 400 V 100 V, 230 V	3 × 230/400 V, 3 × 254/440 V 3 × 230 V, 3 × 400 V 230 V
Current		0.01–1(6) A oder 0.01–5(6) A	0.25–5(65) A, 0.25–5(80) A or 0.5–10(65) A
Starting current		2 mA	20 mA
Utilisation category	UC (Utilisation Category)	–	UC2 (as per EN 62052-31)
Frequency		50 Hz, 60 Hz, 16.7 Hz	50 Hz, 60 Hz
Accuracy	Active energy Reactive energy	Cl. B as per EN 50470-3 Cl. 2 as per EN IEC 62053-23	Cl. B or Cl. A as per EN 50470-3 Cl. 2 or Cl. 3 as per EN IEC 62053-23
Measuring types	Active energy Reactive energy	+A, –A +R, –R	
Energy registers	Quantity	Max. 4 tariff registers + 1 tariff-free register for measuring types +P and –P; max. 2 tariff registers + 1 tariff-free register for each measuring type (+P, –P, +Q and –Q)	
Load profile	Number of channels Memory depth for 1 channel Registration period Recording type	Max. 4 typ. 12 000 entries 5, 10, 15, 30, 60 min Energy registers	
Real time clock	Running accuracy Synchronisation Gold cap power reserve	Within ±5 ppm (at 23 °C) Via data interface or mains-derived 7 days (168 h)	
Data preservation		Voltage-free in flash ROM, at least 20 years under standard operation	
Display	LC display Digit size Read-out in the absence of voltage	8 digits 3.4 × 6.8 mm By means of buffer battery (optional)	
Operation	Mechanical button	For calling the display	
Data interface	M-Bus RS485	As per DIN EN 13757-2, -3 (300...9600 baud) Protocols: M-Bus, SML (Smart Message Language) or Modbus-RTU	
Control input	Quantity Low voltage / System voltage	Max. 1, for external tariff switching 5...40 V DC / 58...230 V AC	
Outputs (optional)	Quantity Optocoupler MOSFET SO output	Max. 2 Max. 250 V AC/DC, 100 mA, for pulse transfer (complies with SO specification) Max. 27 V DC, 27 mA (passive)	
Pulse values	LED	10 000...100 000 pulse/kWh (type-specific)	1 000...2 000 pulse/kWh (type-specific)
	Output		
	primary	1...1 000 pulse/kWh (type-specific, pulse length 100 or 500 ms)	–
	secondary	100...100 000 pulse/kWh (type-specific, pulse length 30, 50 or 100 ms)	1...1 000 pulse/kWh (type-specific, pulse length 30, 50, 100 or 500 ms)
	Configurability	Fixed parameters or adjustable via button (can be locked for invoicing); with fixed parameters, calibrated version is possible, e.g. for Austria	
Power supply	Switch-mode power supply	3-phase via measurement voltage	
Power consumption per phase	Voltage circuit Current path	< 2.0 VA/1.0 W < 0.5 VA	< 2.0 VA/1.0 W < 2.5 VA
Safety characteristics	Overvoltage category (OVC) Rated peak withstand voltage	OVC III (as per EN 62052-31) 4 kV (as per EN 62052-31)	
EMC characteristics	Insulation strength Surge voltage Resistance to HF fields	Insulation: 4 kV AC, 50 Hz, 1 min EMC: 4 kV, pulse 1.2/50 µs, 2 Ω ISO: 6 kV, pulse 1.2/50 µs, 500 Ω 10 V/m (under load)	
Temperature range	Defined operating range Limit range for operation, storage and transport	–25 °C...+55 °C –40 °C...+70 °C	
Humidity		Maximum 95%, non-condensing, as per EN IEC 62052-11 and EN 60068-2-30	
Environmental conditions	Mechanical Electromagnetic Intended operating location	M1, M2 according to the Measuring Instruments Directive (2014/32/EU) E2 according to the Measuring Instruments Directive (2014/32/EU) Interior as per EN IEC 62052-11	
Housing	Dimensions Protection class Degree of protection Housing material non-transparent / transparent Fire properties	6 HP = 107.5 × 89.5 × 64.0 (W × H × D) mm II Housing: IP30 / terminal block: IP30 (with terminal cover) Glass-fibre reinforced polycarbonate, halogen-free, recyclable / polycarbonate, halogen-free, recyclable As per EN 62052-31	
Weight		Approx. 450 g	
Connection cross sections	Conductor / neutral conductor terminals Voltage / additional terminals	Max. 4.0 mm ² (max. 2.5 mm ² as per EN 60999-1) Max. 2.5 mm ²	Max. 25.0 mm ² (max. 16.0 mm ² as per EN 60999-1) Max. 2.5 mm ²
Additional equipment features	Recording of instantaneous values Installation check	Power ratings, voltages, currents, neutral conductor current, frequency Possible via instantaneous values (service data)	

Subject to technical changes.

