



Technical Specification

- ✓ For industry applications and billing purposes
- ✓ Compact design, only 6 pitch
- ✓ 1 or 2 tariffs
- ✓ LC-Display with 8 digits
- ✓ Transformer ratio settable on location
- ✓ Available for busbar
- ✓ Optional with battery
- ✓ PTB-approval applied for



DIZ

Digital Industry Meter

EMH Elektrizitätszähler
GmbH & Co KG

Südring 5
D-19243 Wittenburg

Tel. +49 - (0)3 88 52 - 645 - 0
Fax +49 - (0)3 88 52 - 645 - 29

Email info@emh-meter.de
Internet www.emh-meter.de

Digital Industry Meter DIZ

Electricity meter for the measurement active energy for billing purposes in 1- or 2-tariff version

| | | |
|---|--|--|
| Voltage | 4-wire meter 3-wire meter 2-wire meter | 3x230/400 V, (3x58/100 V, 3x63/110 V, 3x290/500 V) ¹⁾ (3x400 V, 3x100 V, 3x110 V, 3x500 V) ¹⁾ 1x230 V, (1x58 V, 1x63 V, 1x100 V, 1x110 V) ¹⁾ |
| Current | | 5(65) A; 5I11 A, 1 A |
| Frequency | | 50 Hz, 60 Hz; (16 ² / ₃ Hz) ¹⁾ |
| Accuracy | active energy | Cl. 2, option: Cl. 1 accord. to IEC 62053-21 |
| Measuring types | active energy | P+ (with non-reverse ratchet) |
| Meter contents | LED (Imp./kWh) 5(65) A 5I11 A, 1 A output (Imp./kWh) 5(65) A 5I11 A, 1 A configuration ability | 1 000...2 000 (depending on meter type) 10 000...100 000 (depending on meter type) 10...2 000 (depending on meter type) 100...200 000 (depending on meter type) output impulse constant with certified version is fixed parameterized, with uncertified version settable via button |
| Energy registers | maximum number | 1 tariff register (T1), option: 2 tariff registers (T1 / T2) |
| Control inputs for tariff switching (option) | maximum number system voltage | 1 58...230 V AC |
| Data retention time | meter de-energized | at least 20 years (FLASH / EEPROM) |
| Display | LC-Display height of digits | 2 lines with 8 and 7 digits + additional symbols 4 x 6 mm |
| Operation | mechanical button | for operation of display |
| Data interfaces (option) | electrical data interface data protocol maximum baud rate | M-BUS accord. to DIN EN 13757-2, -3 9600 baud |
| Outputs (option) | maximum number Opto-MOSFET | 1 max. 250 V AC/DC, 100 mA, for impulse transmission (fulfils S0-specifications) |
| Energy supply | switched-mode power supply | 3-phase from measuring voltage |
| Power consumption per phase | voltage path current path 5(65) A 5I11 A, 1 A | < 2.0 VA / 1.0 W < 2.5 VA < 0.5 VA |
| EMC-characteristics | isolation resistance surge voltage resistance against HF-fields | isolation: 4 kV AC, 50 Hz, 1 min EMV: 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 | operation/limit and storage | -25°C...+55°C / -40°C...+70°C |
| Relative humidity | | 90% at 40°C, non-condensing |
| Housing | dimensions class of protection degree of protection: housing degree of protection: terminal block housing material fire characteristics weight | 107.5 x 89.5 x 64.2 (W x H x D) mm = 6 pitch 2 IP 20 IP 20 polycarbonate flame-inhibiting (without halogen) approx. 400 g |
| Further features | battery (option) for readout without voltage connection to busbar | at least 30 h lifetime with continuous operation The 5(65) A-version from the series DIZ can be connected to a 3- or 4-phase busbar with a 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!

¹⁾ in preparation



EMH Elektrizitätszähler GmbH & Co KG
Südring 5 • D-19243 Wittenburg

Telephone +49(0)3 88 52 - 645 - 0 • Fax +49(0)3 88 52 - 645 - 29
Internet www.emh-meter.de • Email info@emh-meter.de