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STÖRMELDESISTEME

## Electronic active energy meters with LCD display (EMH)

### Type designation:

#### Electricity meters with LON-BUS

to measure positive and optional negative active energy. In single or two collective version. Space-saving mounting due to compact design. The direct measurement of the execution is following 3 - or 4 - phase busbars prepared.



### Controls and displays

- 8 digit LCD display, including 3 decimal places, digit size: 4 x 6mm
- Mechanical button for ads calling

### Parameterization

- Using LON-bus
- Locally adjustable CT ratio

### Electrical characteristics

- Types of measurement active Energy, +A (with backstop), option: -A
- Energy counters max. 2 tariff register (T1 / T2) for each energy direction
- Secondary or primary impulse output
- Data retention in the absence of power at least 20 years in the EEPROM

### Mechanical characteristics

- Snap-on housing (6M) 107,5 x 89,5 x 64,2mm, with fork busbar connection
- Connection screw-type terminals
 

current CT meter:	4mm <sup>2</sup>
current direct measurement meter:	16mm <sup>2</sup>
additional terminals:	2,5mm <sup>2</sup>

### Approvals

- PTB-approval
- EC-type examination certificate according to Directive 2004/22/EC (MID = **M**easuring **I**nstrument **D**irective)

### Options

- Battery for reading in the absence of power
- Calibration

## Technical data:

- Type of construction:  
snap-on housing 6M  
107,5 x 89,5 x 64,2mm
- Degree of protection:  
IP20
- Weight:  
approx. 400g
- Climatic conditions:  
ambient and  
operating temperature: -25 to +55°C  
storage temperature: -40 to +70°C  
humidity: 95% not condensing
- Connection:  
screw-type terminals  
current CT meter: 4mm<sup>2</sup>  
current direct measurement meter: 16mm<sup>2</sup>  
additional terminals: 2,5mm<sup>2</sup>
- Display:  
8 digit LCD display,  
including 3 decimal places  
digit size: 4 x 6mm
- Buttons:  
for display call
- Energy counters:  
max. 2 tariff register (T1 / T2) for each  
energy direction
- Current:  
CT meter: 5||1 A / 1 (6) A  
direct measurement meter: 5 (65) A
- Starting current:  
CT meter: 2mA  
direct measurement meter: 20mA
- Data retention in the absence of power:  
at least 20 years in the EEPROM
- Types of measurement:  
active Energy, +A (with backstop)
- Frequencies:  
50Hz, 60Hz, 16,7Hz
- Voltage direct measurement meter:  
4 wire-version: 3x290/500V; 3x230/400V;  
3x63/110V; 3x58/100V  
3 wire-version: 3x500V; 3x400V; 3x230V;  
3x110V, 3x100V  
2 wire-version: 230V, 110V, 100V; 63V; 58V
- Voltage CT meter:  
4 wire-version: 3x290/500V; 3x230/400V  
3 wire-version: 3x500V; 3x400V; 3x230V  
2 wire-version: 230V
- Accuracy:  
class 1 or class 2 according to IEC 62053-21  
class B or A according to EN 50470-1,-3
- Power consumption per phase:  
- voltage path: < 2,0VA / 1,0W  
- current path direct  
measurement meter: < 2,5VA  
- current path CT meter: < 0,5 VA
- Transmission:  
LON FTT10A two wire (twisted-pair),  
78kbps, max. 2,7km
- Approvals:  
PTB-approval  
EC-type examination certificate according to  
directive 2004/22/EC  
(MID = **M**asuring **I**nstrument **D**irective)
- Parameterization:  
using LON-bus
- EMC, immunity of interference:  
isolation: 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)