SAIA BURGESS CONTROLS

Single-phase energy meter

with LC display, electronic

Energy meter with LCD display and integrated S0 interface.
The S0 interface is a hardware interface for the transmission of measured values in building automation.

Main features

- Single-phase energy meter, 230 VAC 50 Hz
- Direct measurement up to 32 A
- 7-digit LC-Display
- Lead seal possible with cap as accessory
- Precision class 1 according to IEC62053-21
- S0 output according to IEC62053-31

EMD1 | 32 A | kWh

Tecnical data

Precision class	Class 1 according to IEC62053-21
Operating voltage	230 VAC, 50 Hz, Tolerance –20 % / +15 %
Reference/ measurement current	I_{ref} = 5 A, I_{max} = 32 A
Starting/minimum current	I_{st} = 20 mA, I_{min} = 0.25 A
Power consumption	Active 0.4 W
Measurement	Direct
Counting range	00'000.00…99'999.99 100'000.0…999'999.9
Display	LCD, digits 5 mm high
S0 output	Optocoupler max. 30 V / 20 mA and at least 5 V, impedance 100 Ω, impulse range 30 ms
Transmission distance	Maximum 1000 m (with 30 V / 20 mA)
Pulses per kWh Standard Version	LED: 2'000 Imp./kWh S0 output: 1000 pulses/kWh

Mounting

Mounting	On 35 mm rail, according to EN60715TH35
Screwdrivers	- Primary circuit: Pozidrive no. 1, slotted head no. 1, Tightening torque: 1,2 Nm - S0 output: Pozidrive no. 0, slotted head no. 1, Tightening torque: 0,5 Nm
Primary circuit connections	Max. 6 mm², M4
S0 impulse outputs	Max. 2.5 mm², M3
Insulation characteristics	- 4 kV / 50 Hz test according to IEC62053-21 for Energy Meter part - 6 kV 1.2 / 50 µs surge voltage According to IEC62052-11 - Equipment class II
Ambient temperature	–10°…+55 °C
Storage temperature	–30°…+85 °C
Relative humidity	95 % at 25°…+40 °C, without condensation
EMC/interference immunity	- Surge voltage in accordance with IEC61000-4-5 on primary circuit, 4 kV - Surge voltage in accordance with IEC61000-4-5 at S0 impulse outputs, 1 kV - Burst voltage in accordance with IEC61000-4-4, 4 kV - ESD in accordance with IEC61000-4-2, contact 8 kV, air 15 kV

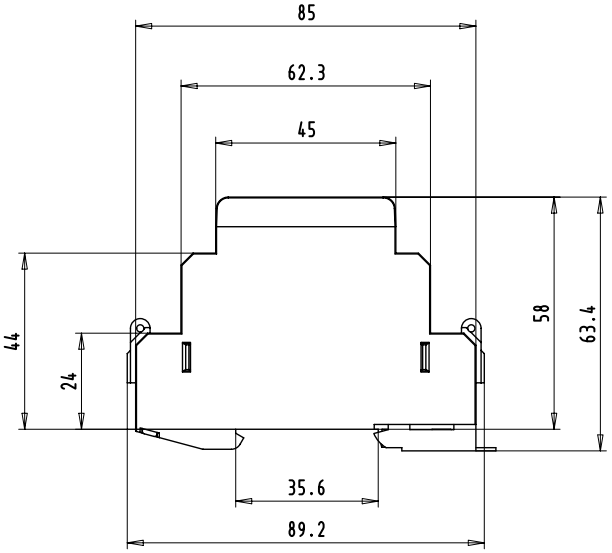
Applications

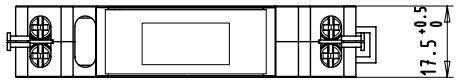
For precise power management and individual invoicing at jointly used facilities

- Precise and secure invoicing of power consumption on camping sites, in marinas, at exhibitions and on street markets
- Measurement of renewable power in the private area, e.g. photovoltaics
- Measurement of power consumption for advertising and lighting

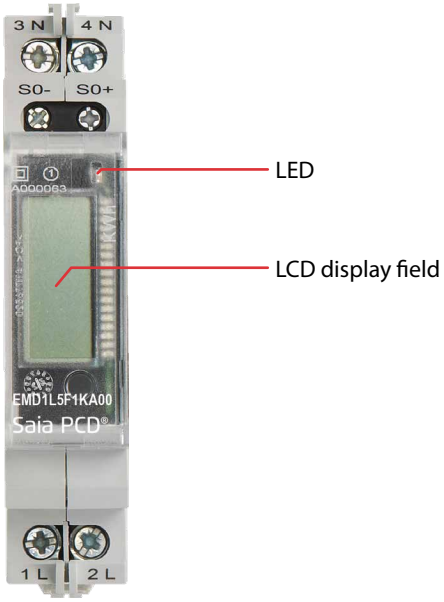
Dimension diagram

Structure

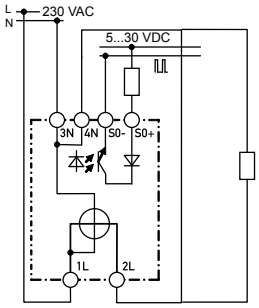




Display elements, direct measurement



Connection diagram



Order indication

Type	Description
EMD1L5F1KA00	Single-phase energy meter with LC display, electronic
4 104 7420 0	Lead sealing cover (2 units recommended as protection against accidental contact)

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