

EEM400-D-P

Electrical Energy Meter with integrated SO-interface

Electrical energy meter with LCD display and integrated SO interface. The SO interface (pronounced S-O-interface) is a hardware interface for the transmission of measured values in building automation.



MAIN FEATURES:

- 3-phase energy meter, 3 × 230/400 VAC 50 Hz
- Direct measuring up to 65 A
- Display of active power, voltage and current for every phase
- Display of active power for all phases
- SO output
- 7-digits display for 1 or 2 tariffs
- Lead seal possible with cap as accessory
- Accuracy class B according to EN50470-3, accuracy class 1 according to IEC62053-21

Order Number

Standard Version:
MID Version:
Sealing caps:

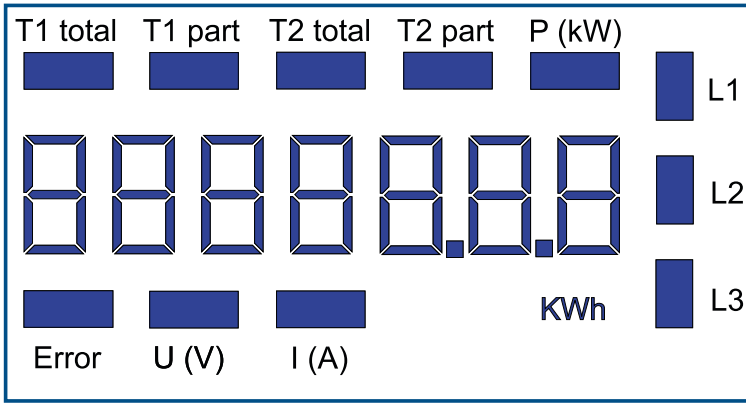
EEM400-D-P
EEM400-D-P-MID
EEM400-SEALCAP
(Bulk with 20 units)



TECHNICAL DATA	
PRECISION CLASS	B according to EN50470-3, 1 according to IEC62053-21
OPERATING VOLTAGE	3 × 230 / 400 VAC, 50 Hz Tolerance -20 % / +15 %
REFERENCE CURRENT MEASUREMENT CURRENT	$I_{ref} = 10 \text{ A}$ $I_{max} = 65 \text{ A}$
STARTING CURRENT MINIMUM CURRENT	$I_{st} = 40 \text{ mA}$ $I_{min} = 0.5 \text{ A}$
POWER CONSUMPTION	Active 0.4 W per phase
COUNTING RANGE	00000.00... 99999.99 100000.0 ...999999.9
DISPLAY	Backlit LCD, 6 mm high digits
DISPLAY WITHOUT MAINS VOLTAGE	Capacitor-aided LCD Maximum 2 times during 10 days
SO OUTPUT (INTERFACE)	Optocoupler max. 30 V / 20 mA and at least 5 V, impedance 100 Ω, pulse width 30 ms
TRANSMISSION DISTANCE, SO OUTPUT	Max. 1000 m (at 30 V / 20 mA)
PULSES PER KWH	LED: 1000 Imp./kWh SO output: 1000 pulses/kWh

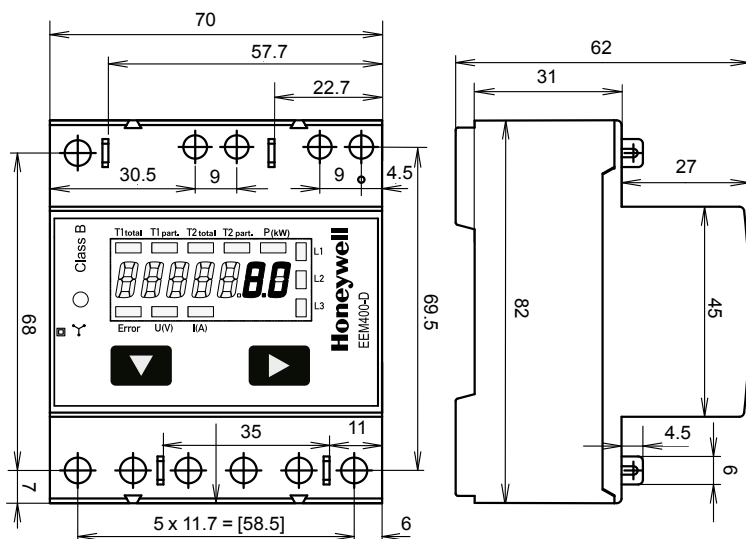
MOUNTING	
MOUNTING	On 35 mm rail, according to EN60715TH35
TERMINAL CONNECTIONS MAIN CIRCUIT	Conductor cross-section 1.5...16 mm ² , screwdriver Pozidrive no. 1, slot no. 2, torque 1.5...2 Nm
TERMINAL CONNECTIONS CONTROL CIRCUIT	Conductor cross-section max. 2.5 mm ² , screwdriver Pozidrive no. 0, slot no. 2, torque 0.8 Nm
INSULATION CHARACTERISTICS	4 kV/50 Hz test according to VDE 0435 for energy meter part 6 kV 1.2/50 μs surge voltage according to IEC255-4 2 kV / 50 Hz test according to VDE 0435 for interface Device protection class II
AMBIENT TEMPERATURE	-25 °...+55 °C
STORAGE TEMPERATURE	-30 °...+85 °C
RELATIVE HUMIDITY	75 % without condensation 95% at 25°...+40 °C, without condensation
ENVIRONMENT	Mechanical M2 Electromagnetic E2
EMC/INTERFERENCE IMMUNITY	Surge voltage according to IEC61000-4-5 at main circuit, 4 kV Burst voltage according to IEC61000-4-4, at main circuit 4 kV ESD according to IEC61000-4-2, contact 8 kV, air 15 kV

DISPLAY ELEMENTS, DIRECT MEASUREMENT



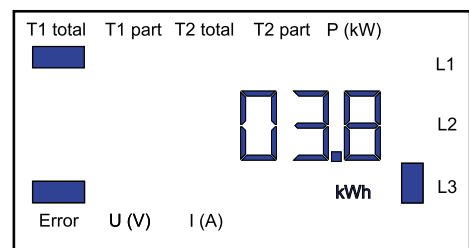
- **T1 total** Shows the total consumption tariff 1 (kWh)
- **T1 part** Shows the partial consumption for tariff 1 (kWh), this value can be reset
- **T2 total** Shows the total consumption tariff 2 (kWh)
- **T2 part** Shows the partial consumption for tariff 2 (kWh), this value can be reset
- **P (kW)** Shows the instantaneous power per phase or for all phases
- **U (V)** Shows the voltage per phase
- **I (A)** Shows the current per phase
- **kWh** Shows the unit kWh for consumption display
- **L1 / L2 / L3** For P, U, I or error message display, the corresponding phase will be indicated
- **Error** In the absence of phase or incorrect current direction. The corresponding phase will also be indicated.

DIMENSION DIAGRAM

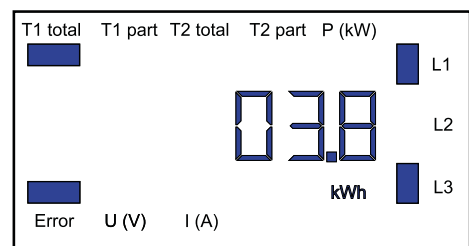


ERROR DISPLAY

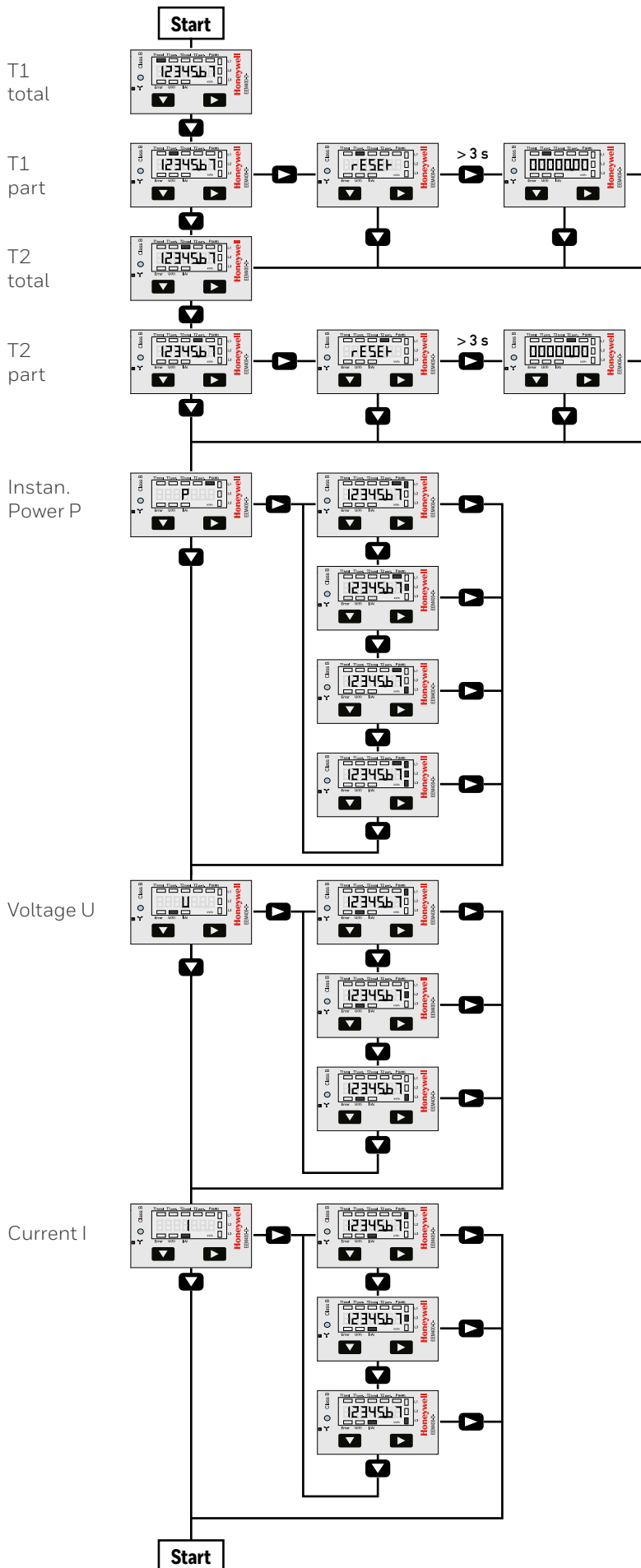
Example: Connection error at L3



Example: Connection error at L1 and L3



Menu to display the values on the LCD



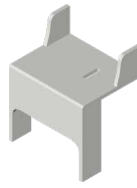
ACCESSORIES

ORDER NO.

Sealing cover for 3-phase Honeywell energy meter EEM400

EEM400-SEALCAP

4 units are recommended for contact protection.

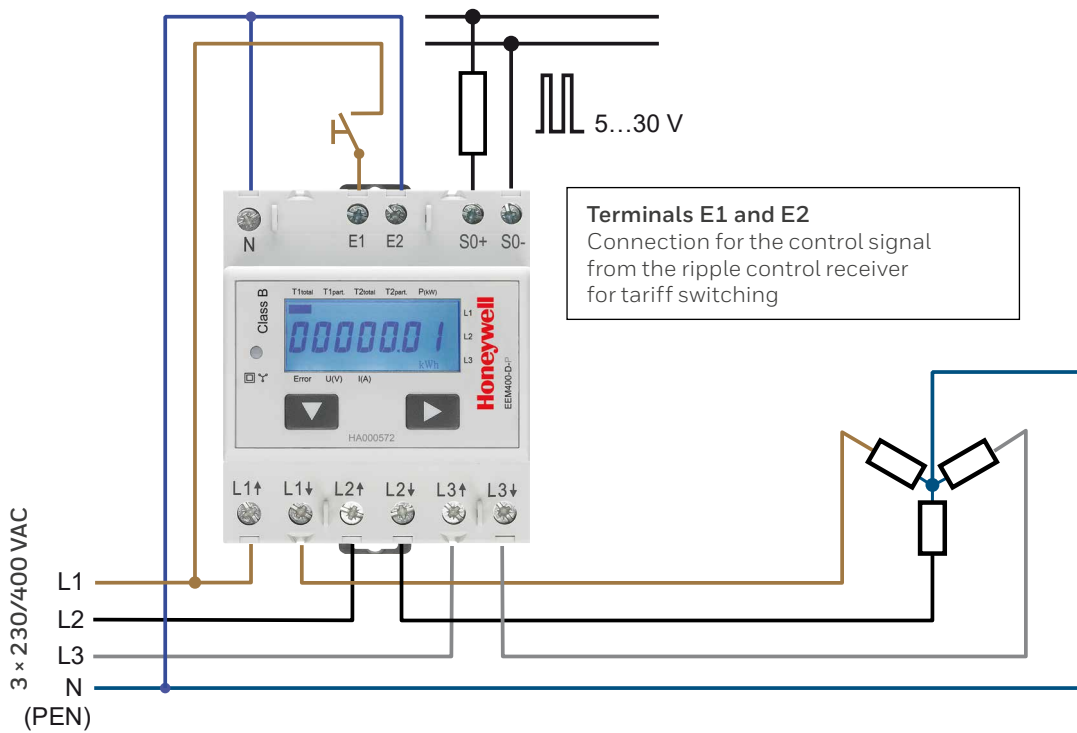


EEM400 with assembled sealing cover



EAC Mark of Conformity for Machinery Exports to Russia, Kazakhstan or Belarus.

WIRING DIAGRAM



Manufactured for and on behalf of the Connected Building Division of Honeywell Products and Solutions SARL, Z.A. La Pièce, 16, 1180 Rolle, Switzerland by its Authorized Representative:

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