



I 400 TC-IO

Design

1. ABS housing.
2. Measurement connection by screw terminals (1 to 8).
3. Input / Output connection by screw terminals (9 to 16).
4. Power supply input and CAN bus connector.
5. CAN bus and power supply connector for DIN rail.
6. Omega rail attachment system.
7. CAN address configuration switch.
8. CAN bus status LEDs.

Presentation

The I 400 TC-IO transmitter is part of the PRECIA-MOLEN I 410 range. It enables:

- ▼ The direct connection of a weight sensor or up to 8 sensors by means of an external junction box,
- ▼ Analogue/digital conversion and sending of weight information via the CAN Open native field bus,
- ▼ All the weighing functions on the associated measurement channel: calibration, zeroing, weighing stability, continuous flow rate calculation with response time configuration, multi-slope calibration, multi-range weighing, etc.,
- ▼ Local or remote management for 2 inputs and 2 logical outputs as well as a 4-20 mA analogue output,
- ▼ Easy integration on DIN rail at the back of the box or cabinet.

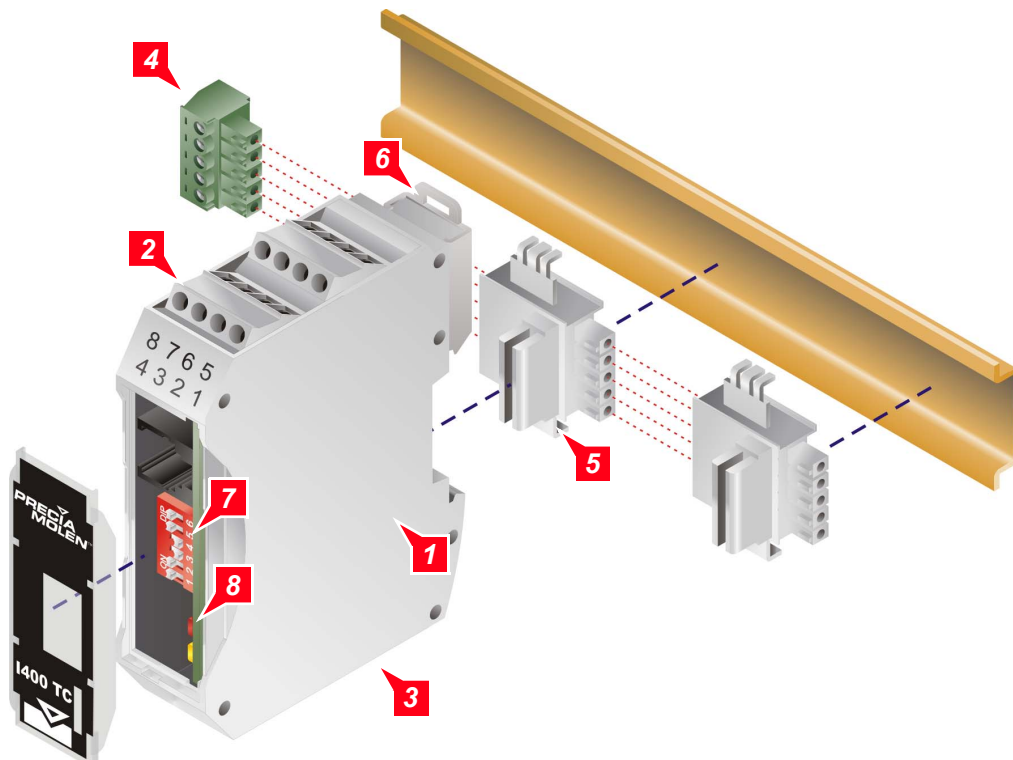
The transmitters are simply clipped onto the profile. They are guided mechanically by the connector.

The insertion of the connector-bus into the profile (Omega rail) and the assembly of the transmitter enables the continuity of the CAN bus and the power supply.

This design enables complete individual transmitters to be removed without interrupting the field bus contact chain.

Compliance

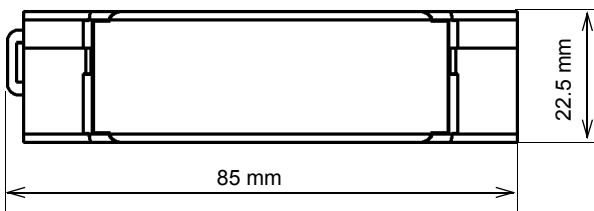
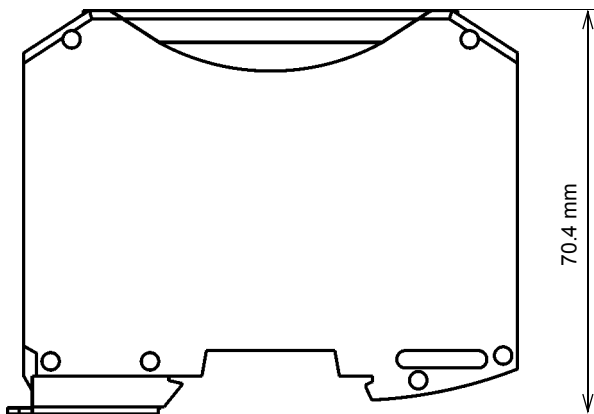
- ▼ Electromagnetic Compatibility Directive 2004/108/CE.



Technical characteristics

Physical characteristics

- ▼ Dimensions
 - Width 22.5 mm
 - Height 70.4 mm
 - Depth 85 mm



- ▼ Omega 35 mm EN 60715 rail mounting
- ▼ Weight about 0.1 kg
- ▼ Protection rating IP 40

Electrical characteristics

- ▼ Power supply
 - Voltage 12 to 28 V DC (24 V nominal)
 - Power consumption 2 VA max
 - Connection Screw terminals

Field bus characteristics

- ▼ Cable (power supply and data) 5 core
- ▼ Connection Screw terminals

Metrological characteristics

- ▼ Number of divisions 200,000
(Non trade metrology)
- ▼ Load cell connection:
 - Nominal power supply 5 V dc
 - Cabling Screened 4/6 core
 - Min impedance 43 Ω
(Ex : 8 350 sensors Ω)
 - Maximum impedance 1245 Ω
 - Maximum cable length 150 m
(0.68 mm²)
 - Connection Screw terminals
 - Minimum dead load signal 0 mV
 - Maximum effective signal 39 mV
- ▼ Number of measurements available per second on field bus 7 to 120
- ▼ Adjustable filter settings

Content Delivery

- ▼ Transmitter.
- ▼ Field bus connector.
- ▼ Power supply input terminal and CAN field bus connector.
- ▼ Installation manual on CD-Rom.

Inputs/Outputs

- ▼ 2 voltage-free logical inputs including one multi-function input (watchdog, filtration or rapid counting):
 - Input impedance 7.5 kW Ω
 - Input voltage 8 - 30 V dc
- ▼ 2 isolated logical outputs:
 - Max. current 500 mA
 - Max. voltage 48 V dc
 - Ron 0.5 Ω
- ▼ 1 4-20 mA analogue output (weight information or any other information transmitted via the field bus).
 - Resolution 12 bits
 - Accuracy 0.1 %
 - Compliance 500 Ω