



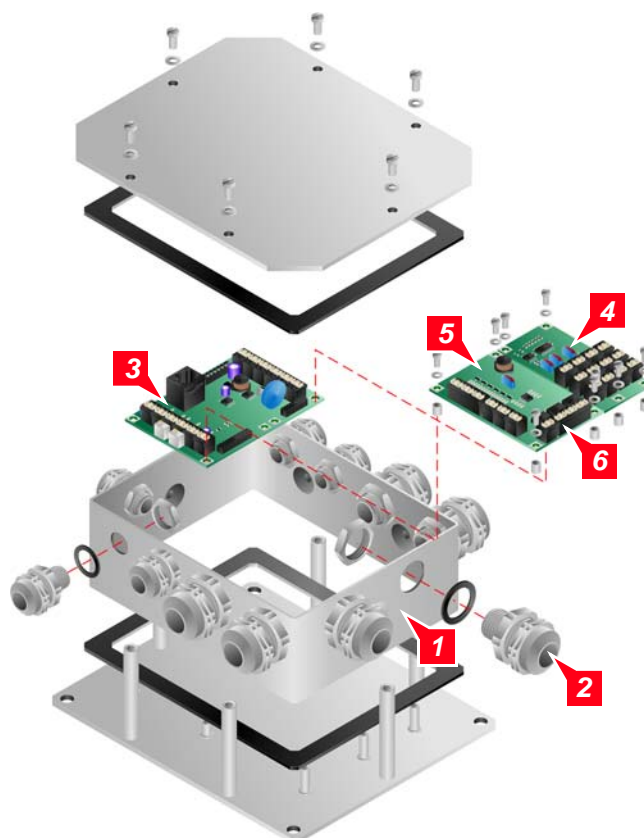
**I 400 TB**  
Zinc Plated Steel Version



**I 400 TB-S**  
Stainless Steel Version

### Design

1. Sealed casing (protection according to IP 67).
2. Connection by sealed glands.
3. Electronic control card for the load receptor.
4. Electronic field bus coupler card.
5. I/O electronic card (option).
6. Connection by spring terminals (without tooling).



### Presentation

The I 400 transmitter is an element of the PRECIA-MOLEN I 400 range. It enables :

- direct connection of 1 to 4 load cells\* for installation close to the load receptor,
- analog/digital conversion and sending weight information through the field bus,
- all weighing functions on the associated scale : setting the tare, zero, measurement stability, permanent calculation of the flow with configuration of the response time, multi-slope calibration, calculation of the weight in multi-increment, etc...

The I 400 transmitter is protected according to IP 67, and is available in two versions :

- I 400 TB  
Black zinc plated steel model.
- I 400 TB-S  
Stainless steel model.

It may be provided with an optional inputs/outputs card for locally providing 6 logical inputs, 6 logical outputs and 1 analog output controlled through the field bus.

\* 6 load cells (or 8 high impedance load cells) through an external connection box.

## Technical characteristics

### Physical characteristics

- Dimensions
  - Width ..... 178 mm
  - Height ..... 65 mm
  - Depth ..... 148 mm
- Fixing : on 35 mm Oméga rail
- Weight ..... about 2 kg
- Protection ..... IP 67

### Installation characteristics

- 4 attachment holes ..... Ø 7 mm
- c/c distance ..... 163.5 x 135 mm

### Electrical characteristics

- Electrical power supply
  - Voltage ..... 24 V dc
  - Connection ..... Spring terminals

### Field bus characteristics

- Cable (power supply and data) ..... 8 wires
- Connection ..... Spring terminals

### Metrological characteristics

- Input graduation ..... 0.5  $\mu$ V
- Number of increments for Trade Use :
  - single range or dual range ..... 6 000\*
  - multi-increment ..... 3 000\*\*
- Number of divisions ..... 200 000  
(Apart from Trade Use)
- Connection of load cells :
  - Nominal power supply ..... 5 V dc
  - Sensitivity ..... 2 mV/V
  - Connection ..... Shielded 4/6 wires
  - Minimum impedance ..... 58  $\Omega$
  - Maximum impedance ..... 1 245  $\Omega$
  - Maximum cable length ..... 150 m  
(0.68 mm<sup>2</sup>)
  - Connection ..... Spring terminals
  - Minimum dead load signal ..... 0 mV
  - Maximum useful signal ..... 12 mV
- Number of measurements available on field bus per second ..... 7 to 120
- Adjustable filter modes and parameters

\* By measurement range.  
\*\* For each of the 3 partial ranges.

## Delivered contents

- Transmitter equipped with :
  - 4 ISO 12 glands made of nickel plated steel\*\*\* for connection of sensor(s) or external connection box,
  - 2 ISO 16 glands \*\*\* made of nickel plated steel for connection to the field bus.
- Installation manual.

## Metrological approval

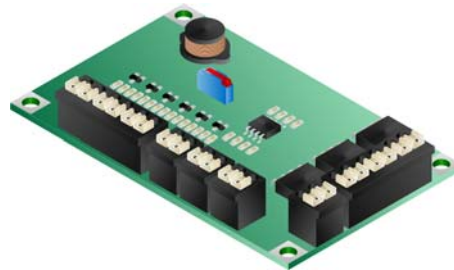
- Test certificate issued by a notified organization according to Directive 90/384/CEE relating to Non-Automatic Weighing Instruments

## European conformity

- Directive 89/336/CEE relating to *Electromagnetic Compatibility*
- Directive 73/23/CEE relating to *Low Voltage* equipment

## Options & Accessories

### Inputs/Outputs card



- 6 potential free logical inputs including an analog input and a multi-function input (determination of the cyclic ratio, fast filtering or counting) :
  - Input impedance ..... 7,5 k $\Omega$ \*\*\*\*
  - Input voltage ..... 6 - 30 V dc
- 6 isolated logical outputs :
  - Max. current ..... 125 mA
  - Max. voltage ..... 48 V dc
  - R<sub>on</sub> ..... 25  $\Omega$
- One 4-20 mA analog output (weight information or any information transmitted through the field bus).

It is delivered with 4 nickel plated steel glands.

\*\*\* Stainless steel glands available as option.  
\*\*\*\* 160  $\Omega$  for the analog input.

## Your weighing specialist

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