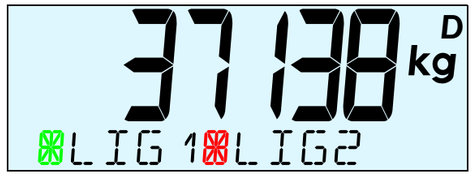
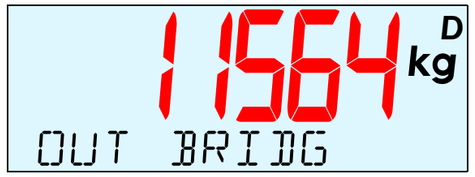
Options

- Traffic light management (up to 2 lights)
  - Light status display per colour.
  - Traffic light type settings: input or output.
  - Light denomination settings (4 characters).

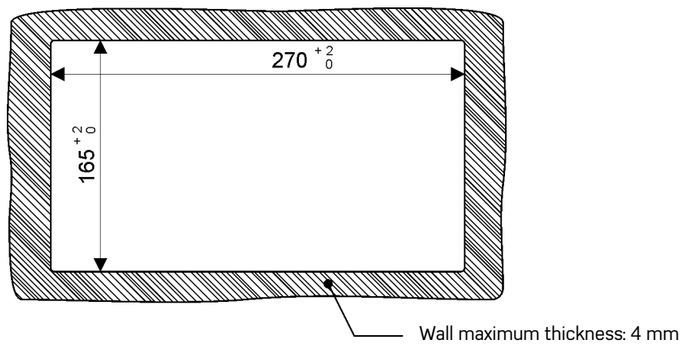


- Weigh authorization depending on a contact status (vehicle positioning cell, key contact, etc.)
  - Configurable message.
  - Weigh authorization / display (YES/NO).



- Panel-mounting kit

Cutting dimensions



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Your specialist

Illustrations not contractual. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure at any time.

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PRECIA MOLEN™ WORLDWIDE WEIGHING

i 35 Ex 2-22 (Ex)

Weighbridge indicator for explosible atmosphere

Designed to weigh product inputs and outputs on weighbridges, the **i 35 Ex 2-22** indicator with its user-friendly and efficient software can meet any entirely autonomous weighing need.

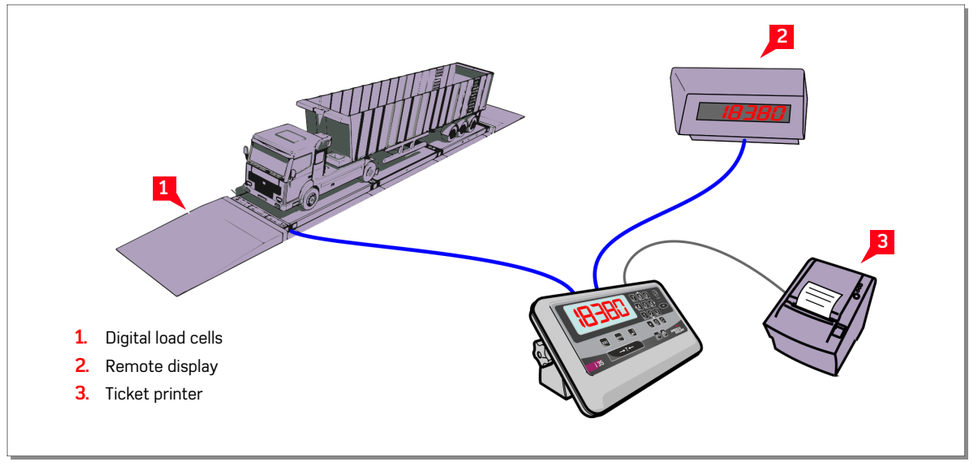
Compliant with the 94/9/EC directive, it can be installed in hazardous area for dust (zone 22) and/or gas (zone 2) related risks.

Equipped with a ticket printer (sold separately, has to be installed in healthy area), it can also communicate through multiple connections with current industrial PCs and weight remote displays, in compliance with legal for trade use requirements.

Economical and innovative, it locally monitors two weighbridge input/output traffic lights. Furthermore, it is equipped with a cunning weigh blocking system that prevents using the weighbridge outside working hours.

Thank to its power range, it can supply up to 18 analogue or digital PRECIA MOLEN load cells, thus enabling to manage high-length weighbridges.

Usual application



1. Digital load cells
2. Remote display
3. Ticket printer

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04-52-15-1 FT - 07/2014

General features and functions

Metrological features

- NAWI Class III
- Simple range ..... 6000 d (LT)
  ..... 30000 d (NT)
- Double range ..... 2 x 3000, 2 x 6000 (LT)
- Minimum tension scale per division ..... 0.5 µV
- Weigh cell supply ..... 5 V
- Weigh cell minimum impedance ..... 43 Ω
- Weigh cell maximum impedance ..... 1245 Ω
- 4/6-wire connection.
- Up to 100 measurements/second.
- Digital filters that can be cascading on 2 configurable levels.

Weighing

- Weight reading (up to 18 load cells).
- Minimum threshold management.
- Tracking zero.
- Simple weigh (gross weight) with storage of the last 30 weighs.
- Double weigh (gross weight) with reminder of one of the 30 last stored simple weighs (gross weight).
- Simple weigh with predetermined tare.
- Simple weight with manual tare.
- Weigh storage in alibi memory (DSD) 300 000 records (optional).

Display

- Innovative FSC-LCD (Field Sequential Color) technology.
- High vision angle.
- Adjustable contrast.
- Weight on 7 25-mm high characters.
- Indications: Unity, stability, range.
- Configurable background colour (7 colours available).
- Real time clock (HH :MM :SS).
- Weighbridge designation: 10 8-mm characters.

Help with preventive maintenance

- Overload counter (digital: by each load cell).
- Alert display on 3 levels depending on the number of weighs performed.

Communication

▼ Towards the weight remote display, to choose from:

- PMNet network (from the junction box);
- 1 RS232/RS485 port ;
- 1 CANopen bus (optional).

▼ Protocols

- Slave PM A+, Master PM A+
- Master PM D
- Modbus RTU (serial bus)

Keyboard

- Touch screen.

Casing

- IP 66 protection.
- 304L embossed stainless steel construction.
- Delivered with rotating support (180°) for tabletop or wall mounting.
- Reversible rear shell.
- Weight: 1.5 kg.

Settings

The metrological and functional configuration of the indicators can be done via:

- the indicator front panel;
- a PC and simple Internet browser.

Parameters back-up/restoration on µSD board (optional) or CD-Rom.

Certification

▼ Metrology

Test certificate provided by a notified body according to 2009/23/EC directive related to Non Automatic Weighing Instruments.

▼ Electromagnetic Compatibility

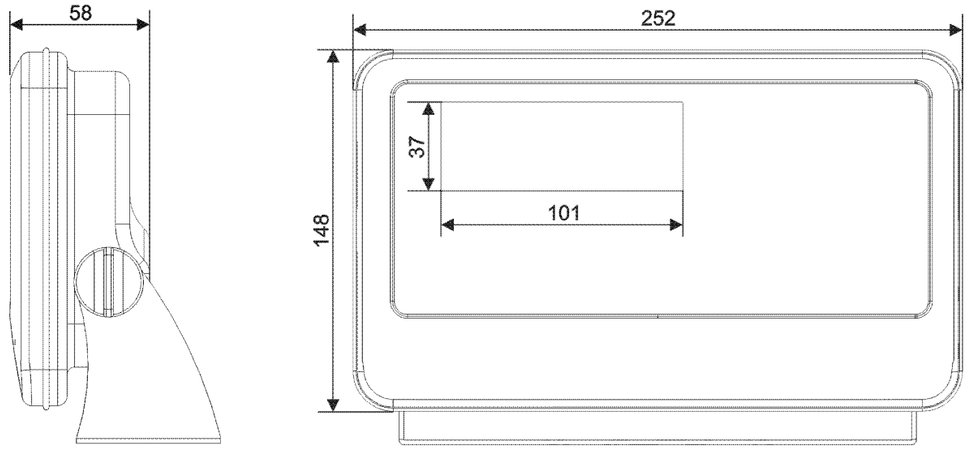
Compliant with the requirements of the 2004/108/EC directive.

ATEX certification

- Compliance with the requirements of the 94/9/EC directive related to the protection devices and systems designed for use in explosible atmospheres.
- Marking according to EN 60079-0:2012
  - II3G Ex nA IIC T4/T6* Gc
  - II3D Ex tc IIIC T85°C Dc

** T4 with an optional board.*

Technical features



Supply

- Tension ..... 9-30 V DC
- Maximum consumption
  - analogue measurement ..... 1.4 W
  - 8-load cell digital measurement ..... 10 W

Inputs – Outputs

- Galvanic isolated digital outputs ..... 30 V AC/DC - 100 mA
- Galvanic isolated digital inputs ..... 8-30 V DC - 15 mA max.

Environment

- Operating temperature (legal for trade use) ..... - 10 °C / + 40 °C
  (at 85 % of max. relative humidity without condensation)
- Operating temperature (not legal for trade use) ..... - 20 °C / + 55 °C
  (at 85 % of max. relative humidity without condensation)
- Storage temperature ..... - 20 °C / + 55 °C
  (at 85 % of max. relative humidity without condensation)

Example of tickets

▼ Simple weigh

▼ Weigh with predetermined tare

▼ Double weigh

▼ Weigh with manual tare

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