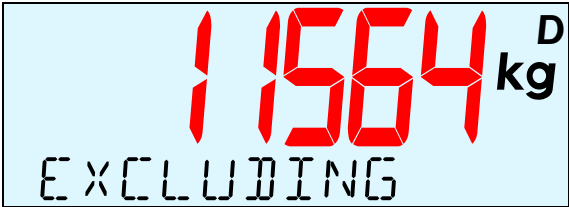


Options

Logic Inputs / Outputs

- ▼ Traffic light management (up to 2 lights)
  - Light status display by colour.
  - Traffic light type configuration : entry or exit.
  - Light name configuration (over 4 characters).
- ▼ Weighing authorisation according to the status of a contact (vehicle positioning cell, ignition, etc.)
  - Configurable message
  - Weighing Authorisation / Display (YES/NO).



µSD Card

- Allows parameter backup / restore.
- Data Storage Device (DSD) with 300 000 records for trade use.

Internal Power Supply

- Voltage ..... 100-240V AC 50/60Hz
- Power consumption ..... 0.35 A

CANopen Field Bus

Allows connection to an I400 network of transmitters and indicators.

PMNet Card

Allows connection of the i 35 Ex 2-21 IECEx to the PMNet network and PRECIA MOLEN digital measuring units.

Your specialist

Non contractual illustrations. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure at any time.

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i 35 Ex 2-21 IECEx  
Weighbridge indicator for explosive atmosphere



For material input and output weighing on weighbridge, the **i 35 Ex 2-21 IECEx** indicator, with its simple, user-friendly and high performance application, can meet all weighing requests completely independently.

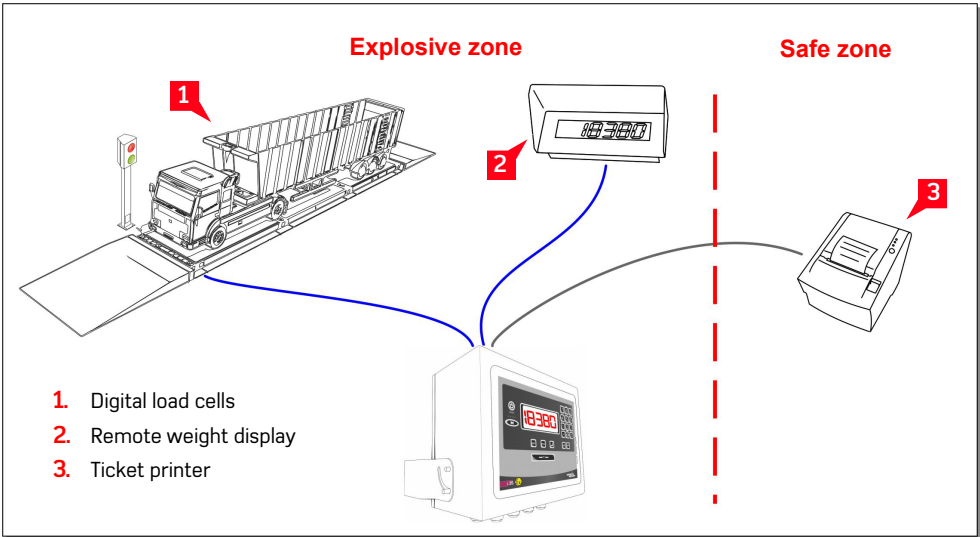
It can be installed directly in explosive atmospheres where there are risks associated with the presence of dust (zone 21 and 22) and/or gas (zone 2).

Equipped with a ticket printer (sold separately and to be installed in safe zone), it is also able to communicate via a range of connections with the market's industrial PCs and remote weight displays, in accordance with legal metrology aspects.

Economical and innovative, it manages two weighbridge entry/exit traffic lights\* locally. In addition, it is equipped with an ingenious weighing blocking system which prevents the weighbridge from being used outside working hours.

Its internal power supply (optional) allows it to power up to 10 analogue or digital PRECIA MOLEN load cells, which means it can manage very long bridges.

Typical Application



\* With 24 V DC maximum power supply

Note: The list of the different European Directives applicable and the list of countries which are the subject of an approval are indicated in the International Product Guide.

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General Characteristics and Functions

Metrological Characteristics

- Class III NAWI
- Single range ..... 6000 e (LT)  
..... 30000 d (NT)
- Dual range..... 2 x 3000, 2 x 6000 (LT)
- Minimum voltage division per division..... 0.5 µV
- Weighing load cell power ..... 5 V
- Minimum load cell impedance..... 43 Ω
- Maximum load cell impedance..... 1245 Ω
- 4/6 wire ..... connection
- Up to 100 measurements / second
- Cascadable digital filtering on 2 configurable levels

Weighing

- Weight reading (up to 10 load cells).
- Minimum threshold management.
- Zero tracker.
- Single weighing (gross weight) with last 30 weighing operations saved.
- Dual weighing (gross weight) with recall of one of the last 30 single weighing operations (gross weight) saved.
- Single weighing with preset tare.
- Single weighing with manual tare.
- Weighing operations saved to Data Storage Device (DSD) 300 000 records (Optional).

Display

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

Approval for Trade Use

- ▼ Conforms to European Directive 2009/23/EC on Non-Automatic Weighing Instruments (NAWI).

CE Compliance

- ▼ Conforms to the European Directive on Electromagnetic Compatibility.

Ex Certification

- Conforms to the European ATEX Directive relating to equipment and protective systems intended for use in potentially explosive atmospheres and to the IECEx standards.
- Marking according to EN 60079-0:2012
  - II3G Ex nA IIC T4/T6\* Gc
  - II2D Ex tb IIIC T85°C Db

\* T4 with an option card

Preventive Maintenance Help

- Overload counter (digital : load cell by load cell).
- Alert display on 3 levels according to the number of weighings taken.

Communication

- ▼ To the weight repeater, choice :
  - on PMNet network (from the connection unit);
  - 1 RS232/RS485 port ;
  - 1 CANopen bus (option).
- ▼ Protocols
  - Slave PM A+, master PM A+
  - Master D PM
  - Modbus RTU (Serial bus)

Keypad

- Touch control keys.

Housing

- 304L stainless steel construction
- Includes a swivelling universal bracket for tabletop or wall installation.
- Weight: 4 kg.

Configuration

The indicator's metrological and functional settings can be made :

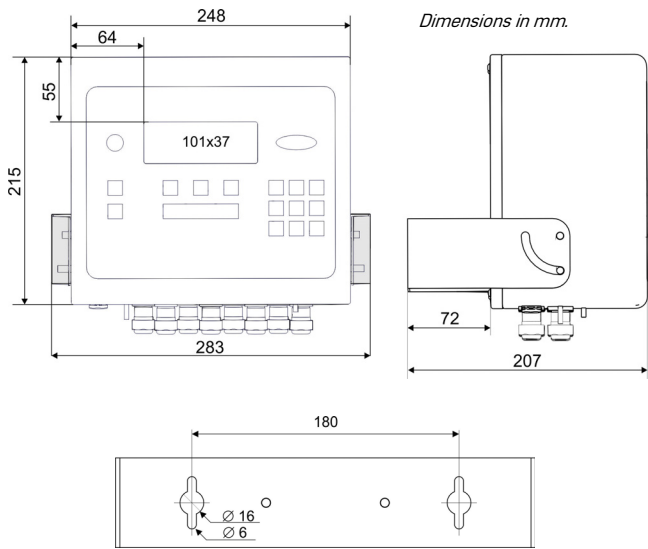
- Via the indicator's front panel;
- Via PC and internet browser.

Parameter backup/restore via µSD card (optional) or PC.

Accessories Supplied

- Translucent front protection shell, may be kept in place during use.

Technical Characteristics



Power Supply

- Voltage ..... 9-30 V DC
- Maximum consumption
  - Analogue measurement..... 14 W
  - 8-load cell digital measurement..... 10 W

Inputs – Outputs

- Digital outputs galvanically isolated ..... 30 V AC/DC - 100 mA
- Digital inputs galvanically isolated ..... -30 V AC/DC - 100mA

Environment

- Usage temperature..... - 20 °C / + 55 °C\* (10 to 85 % max. relative humidity without condensation)
- Storage temperature..... - 20 °C / + 55 °C
- IP66..... protection rating
- IK07..... impact resistance

Examples of Tickets

▼ Simple weighing



▼ Weighing with preset tare



▼ Dual weighing



▼ Weighing with manual tare

