

## Functions

### Communication

- 1 RS232/RS485 configurable port.
- Protocols : slave Modbus RTU, slave PM A+ and remote display master PM A+.

### Weight thresholds

#### 4 galvanically isolated digital outputs:

- Tension/power range ..... 48 V AC/DC - 100 mA
- Definition of thresholds in gross or net weight.
- Activation of output if the current weight is >= or <= threshold.
- Thresholds relative to positive or negative weight value.

### Remote control

#### 2 galvanically isolated digital inputs:

- Tension range ..... 8-30 V DC
- Max power. .... 15 mA

Allow remote zeroing and tare operations.

### Configuration

The metrological and functional configuration can be performed via:

- the indicator front panel;
- a PC and mere web browser.

Parameter back-up/restoring on µSD board (option) or disk.

### Preventive maintenance aid

- Counter of registered weight overloads.
- Alert display on 3 levels according to the number of performed weighs.

## Options

### Field bus communication

- PROFIBUS-DP\*
- PROFINET\*
- DeviceNet\*
- Ethernet Modbus-TCP\*
- EtherNet/IP\*
- CANopen

The CANopen bus also allows connecting a d 20 remote display and integrating an i 40 indicator within an I 410 network.

### Analogue output\*

- 4-20 mA or 0-10 V analogue output
- 1500 V RMS galvanic isolation
- Possible reading of negative weight values on the 0-4 mA range
- Image of instant gross or net weight

\* Exclusive options: either one of the connections to the field buses marked by \*, or an analogue output.

### Serial communication

- 1 peripheral-type USB port\*
- 1 RS 232 port\*\*
- Protocols: slave Modbus RTU, slave PM A+ and remote display master PM A+.

\* Option available only in version i 40-SS.

\*\* Option available only in version i 40-SS and i 40-JB.

### TCP/IP communication

- 1 port Ethernet 10/100 Mb RJ 45\*
- Protocol: slave PM A+ and remote display master PM A+.

\* Option non available for i 40-JB version

### µSD board

- For parameter back-up/restoring.
- Alibi (DSD) memory for 300 000 records in legal for trade use.

### Protection carter

- To protect the i 40-JB indicator
- Does not allow the legal for trade use of the indicator.

### Mounting kit

- To integrate the i 40-SS indicator into a cabinet or console.

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## i 40 Weight indicator for industrial processes

**PRECIA  
MOLEN™**  
WORLDWIDE WEIGHING



**i 40-SS\***

**i 40-PM**

**i 40-DR**

**i 40-JB**

The industrial indicator i 40 is particularly adapted to *process weighing* as it easily fits into any industrial process that implies with measurement.

The various connection possibilities offer a direct link with the i 40 for most PLC and industrial market PCs.

With different types of housing, the indicator can be installed directly into the work environment, into a cabinet or a monitoring terminal.

### Display

- FSC (Field Sequential Color) segment technology
- Configurable 7-colour backlighting
- Weight display on seven 25-mm characters
- Text area with ten 8-mm characters
- Weight unit: g, kg, t et lb
- Light indicators for metrology and field bus operation
- High angle of vision and contrast
- French/English messages

### Metrological approval

Compliant with the European Directive relative to Non Automatic Weighing Instruments (NAWI).

- NAWI Class III
- Simple range 1 x 3 000 or 1 x 6 000
- Double range 2 x 3 000 or 2 x 6 000

### Environment features

- Power supply ..... 9 to 30 V DC\*
- Maximum power:  
Typical ..... 1,4 W  
With 4-20 mA / 0-10 V option ..... 1,8 W  
With field bus option ..... 2,7 W
- Connection with spring terminals
- Use temperature ..... -15 °C / + 60 °C\*\*  
(at 80 % max. of relative humidity without condensation)
- Storage temperature ..... - 20 °C / + 65 °C  
(at 90 % max. of relative humidity without condensation)

\* if 4-20 mA option: minimum 22 V.  
\*\* -10 °C / + 40 °C in legal for trade use.

### Keyboard

- Touch keys
- 3 metrological keys: zero, tare and gross weight reminder
- 3 menu access keys
- 4 arrow keys (i 40-SS only)

### Metrological features

- Up to 200 000 divisions in non legal for trade use.
- Sensitivity ..... 2 mV/V
- Minimal tension scale per division ..... 0,5 µV
- Weighing cell power ..... 5 V
- Weighing cell minimal impedance ..... 43 Ω
- Weighing cell maximal impedance ..... 1245 Ω
- 4/6 wire connections
- Up to 100 measurements/second
- Cascadable digital filters on 2 configurable levels
- Direct connection of 1 to 4 analogue 4 or 6-wire load cells for the version i40-JB.

\* Also available in IP69K

**IP69K**  
LCIE : 115532-630480

Note: The list of the various applicable European Directives as well as the list of countries with an accreditation can be found in our International Product Guide ref. 99-02-01-1 FT.



### 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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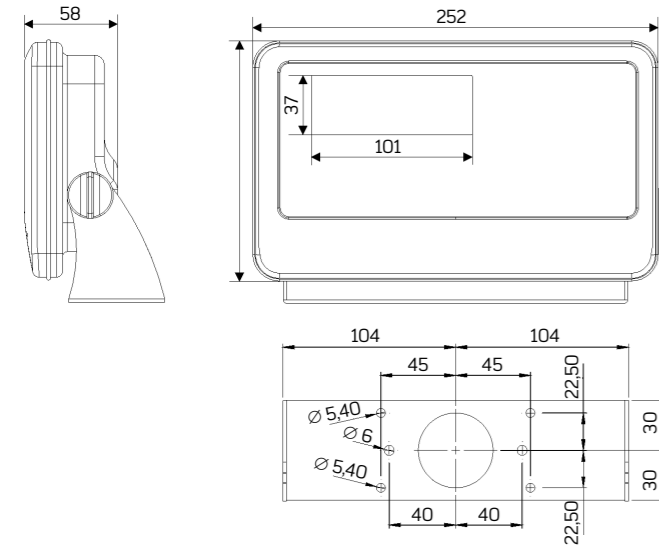
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## i 40-SS, housing version

### Features

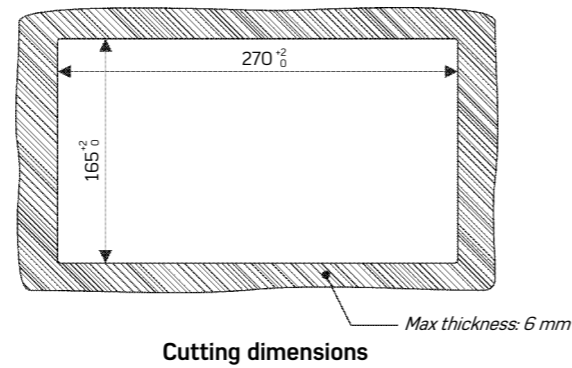
- ▼ Housing ..... SS 304L
- ▼ 5 glands ..... ISO 16
- ▼ Waterproofing ..... IP66
- ▼ Swivelling support 180°
- ▼ Weight ..... 1.5 kg

### Dimensions



Dimensions in mm.

### Mounting kit (option)

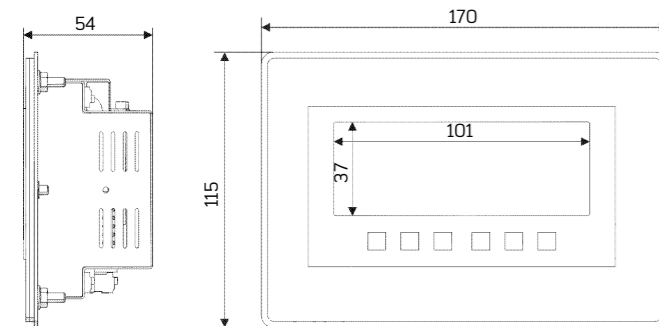


## i 40-PM, mounting version

### Features

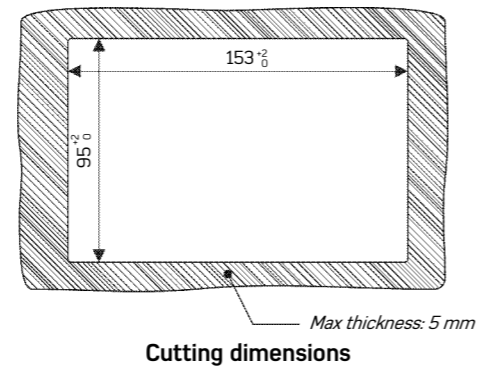
- ▼ Front panel ..... SS 304L
- ▼ Housing ..... Metal
- ▼ Waterproof protection (front panel) ..... IP54
- ▼ Overall waterproof protection ..... IP30
- ▼ Weight ..... 450 g

### Dimensions



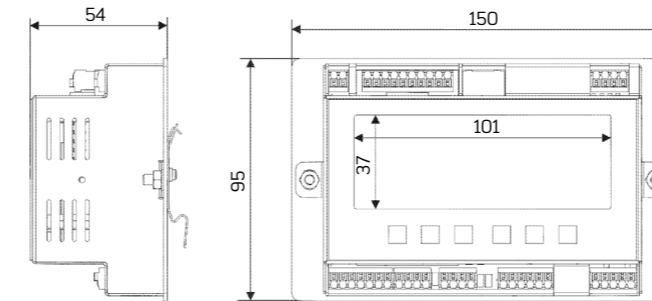
Dimensions in mm.

### Mounting kit



## i 40-DR DIN rail version

### Dimensions



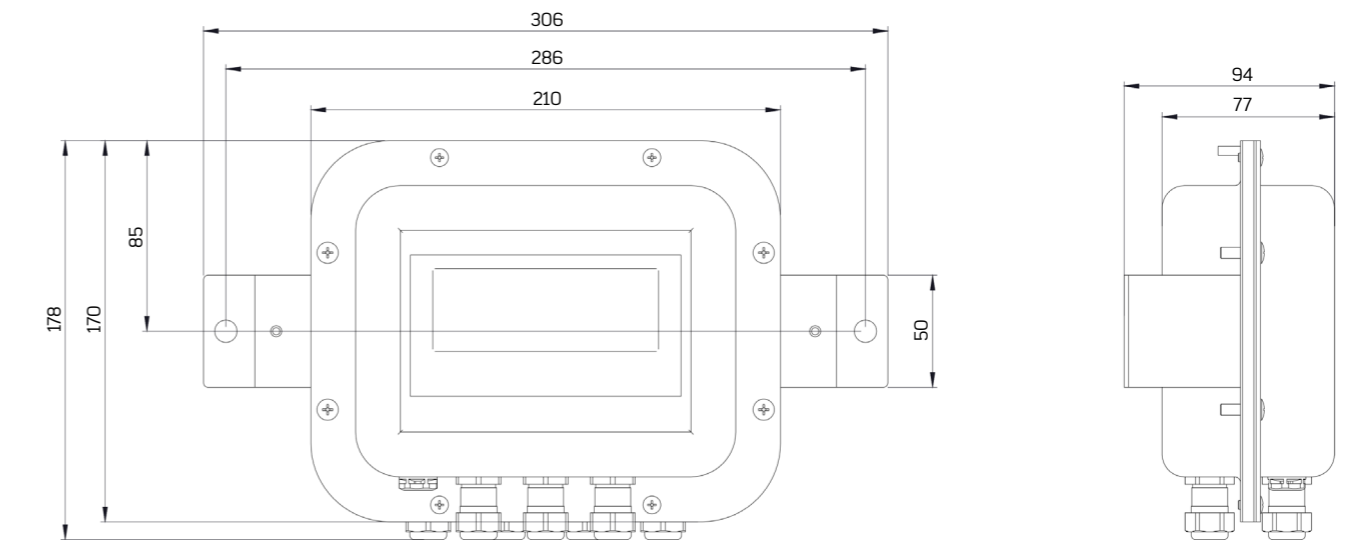
Dimensions in mm.

### Features

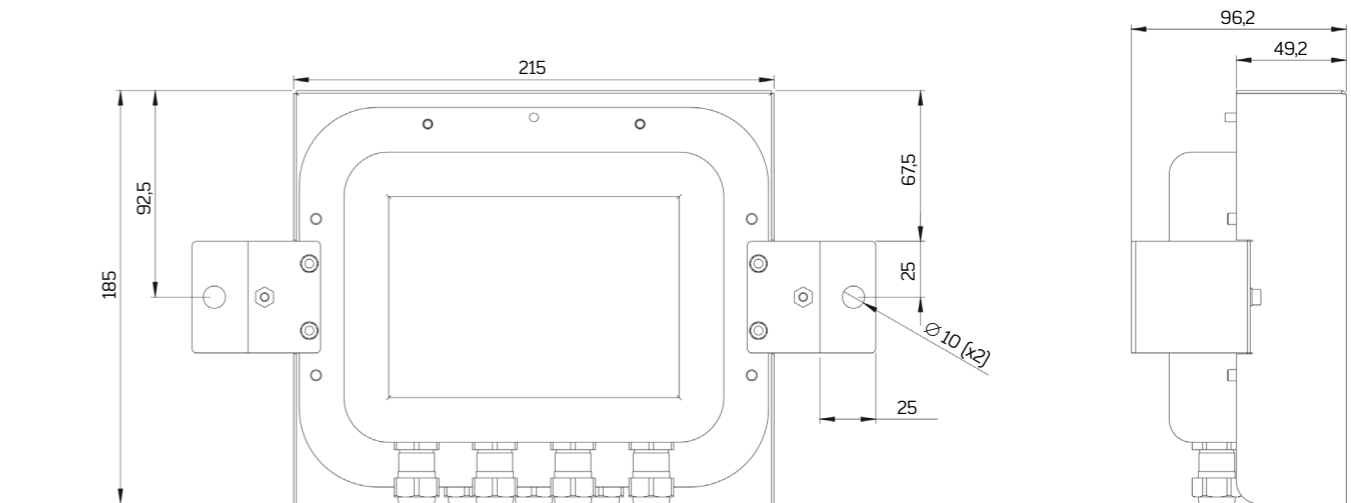
- ▼ Fixing on Omega 35 mm DIN rail EN 500022
- ▼ Housing ..... Metal
- ▼ Waterproofing ..... IP30
- ▼ Weight ..... 450 g

## i 40-JB version with 4-load cell junction box

### Dimensions



### Dimensions with protection carter (option)



Dimensions in mm.

### Features

- ▼ Housing ..... SS 304L
- ▼ 7 glands ..... ISO 16
- ▼ Waterproof protection ..... IP66
- ▼ Weight ..... 1.5 kg
- ▼ Weight with protection carter ..... 2.2 kg