

## Features

### Communication

- RS232/RS485 configurable port.
- Protocols: Slave RTU Modbus, PM A+ slave and PM A+ master repeater.

### Weight thresholds

- 4 digital outputs 48 V AC/DC - 100 mA galvanically isolated.
- Gross weight or net weight threshold definition.
- Output activated if the current weight is  $\geq$  or  $\leq$  threshold value.
- Thresholds on a positive or negative weight value.

### Remote control

2 galvanically isolated digital inputs:

- Voltage range..... 8-30 V DC
- Max. current..... 15 mA

Allow remote zero and tare setting operations.

### Setting

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 optional  $\mu$ SD card or PC.

### Preventive maintenance help

- Recorded weight overload counter.
- Alert display on 3 levels according to the number of weighings taken.

## Options

### Communication by field bus

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

The CANopen bus also allows connecting a d 20 remote display and integrating an i 40 into an I 400 network.

### Analog output\*

- 4-20mA or 0-10V analog output
- 1500V RMS galvanic isolation
- Reading of negative weight values in the 0-4 mA range
- Instant gross or net weight image

\* Exclusive options: Either one of field bus connections marked with an asterisk, or an analog output.

### Serial communication

- Peripheral type USB port
- RS 232 port
- Protocols: Slave RTU Modbus and PM A+ slave

### TCP/IP communication

- 10/100 Mb RJ 45 Ethernet port
- PM A+ slave protocol

### $\mu$ SD card

- Allows parameter backup / restore.
- Data Storage Device (DSD) with 200,000 records for trade use.

### Mains power supply

- 90-230V AC 50-60Hz power supply
- Integrating into the i 40-SS version housing

### Panel mounting kit

- For integrating an i 40-SS indicator into a cabinet or console door.

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## i 40 Weight indicator for process applications

**PRECIA  
MOLEN™**  
WORLDWIDE WEIGHING



i 40-SS



i 40-PM



i 40-DR

- ▶ The i 40 weight indicator is especially suitable for *process weighing* and integrates easily into any industrial process requiring weight measurement.
- ▶ Various connectivity options enable direct connection of the i 40 indicator to most PLCs and industrial PCs.
- ▶ Different housing versions allow installation of the indicator on a table top, panel mounting or DIN rail mounting.



Modbus-TCP



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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## Display

- FSC (Field Sequential Colour) segments technology
- Configurable 7 colour backlighting
- Weight display on 7 x 25 mm high characters
- 10 x 8 mm high character text field
- Weight unit: g, kg, t and lb.
- Field bus metrological and activity indicator
- High viewing angle and contrast
- French / English bilingual messages

## Keyboard

- Touch control keys.
- 3 metrological keys: Zero, tare and gross weight recall
- 3 menu access keys
- 4 key directional keypad (i 40-SS only)

## Metrological characteristics

- Up to 200,000 divisions for non-trade use.
- Sensitivity..... 2 mV/V
- Minimum voltage step per step..... 0.5  $\mu$ V
- Load cell power..... 5 V
- Minimum load cell impedance..... 43  $\Omega$
- Maximum load cell impedance..... 1245  $\Omega$
- 4/6 wire connection
- Up to 100 measurements / second
- Cascadable digital filtering on 2 configurable levels

## Metrological certification

Test certificate issued by a notified body in accordance with Directive 2009/23/CE for Non-Automatic Weighing instruments.

- Class III IPFNA
- Single range 1 x 3 000 or 1 x 6 000
- Dual range 2 x 3 000 or 2 x 6 000

## Environmental characteristics

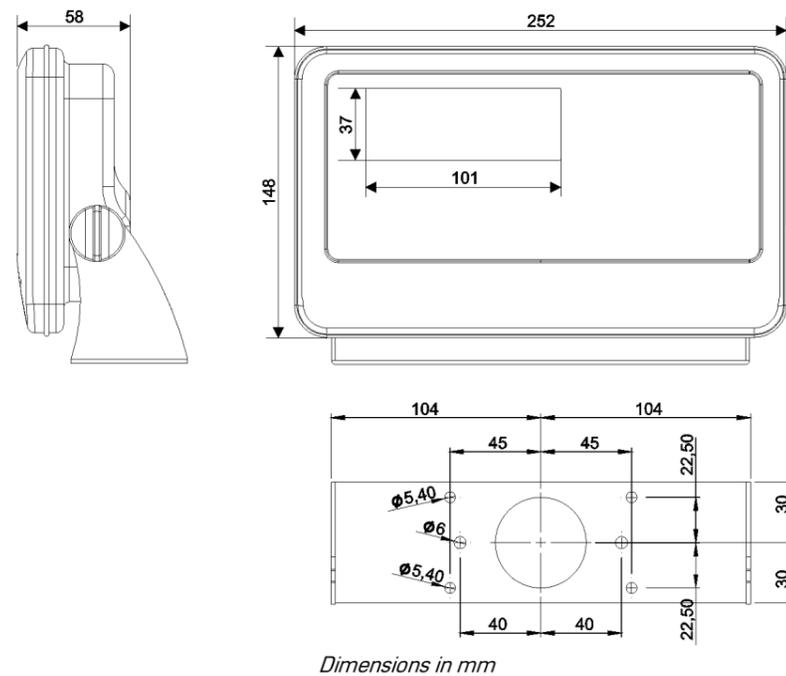
- Power supply..... 9 to 30 V DC
- Maximum consumption:
  - Typical..... 1.4 W
  - With 4-20 mA / 0-10 V option..... 1.8 W
  - With field bus option..... 2.7 W
- Connections on spring loaded terminals
- Operating temperature..... - 15 °C / + 60 °C\*  
(at 80 % max. relative humidity, non-condensing)
- Storage temperature..... - 20 °C / + 65 °C  
(at 90 % relative humidity, non-condensing)

\* - 10 °C / + 40 °C in trade use.

## Electrical certification

- Electromagnetic Compatibility complying with the requirements of Directive 2004/108/CE.
- Comply with the requirements of Low Voltage directive 2006/95/CE.

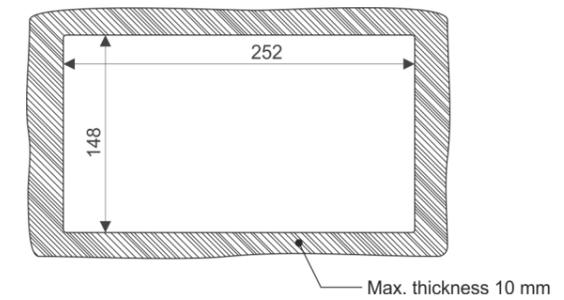
## i 40-SS housing version



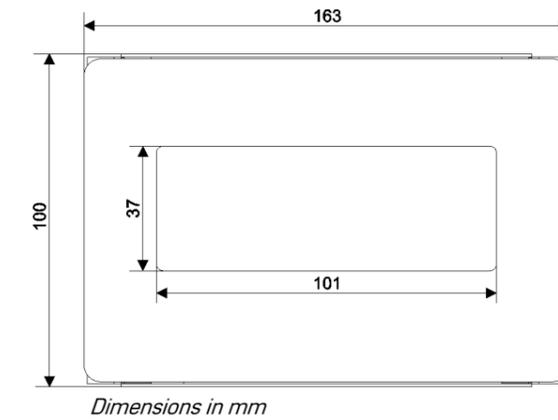
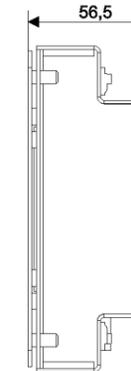
- 304L stainless steel housing
- IP66 protection rating
- 180 ° swivel bracket
- Weight 1.5 kg

## Panel mounting kit (option)

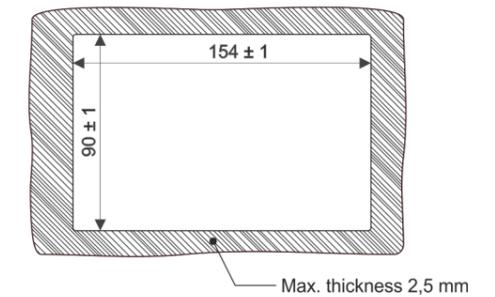
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## i 40-PM panel mounting version

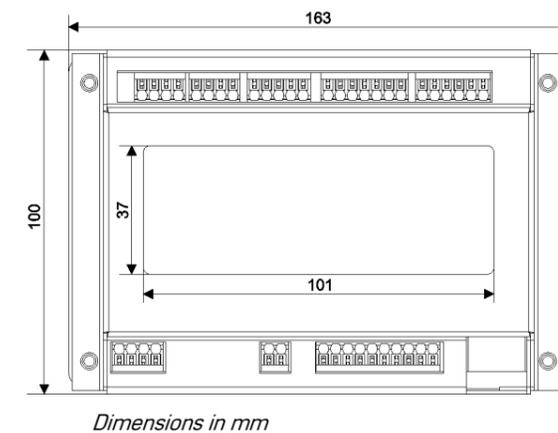


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- Front panel in 304L stainless steel
- Metal housing
- IP54 protection rating
- Overall IP30 protection rating
- Weight 450 g

## i 40-DR DIN rail version



- Omega 35 mm DIN EN 500022 rail mounting
- Metal housing
- IP30 protection rating
- Weight 450 g