



## PR 1626/60, PR 1625/60, PR 1624/00 Intrinsically safe interfaces, power supply 24 V



- **Load cell interface PR 1626/60:**
  - Intrinsically safe interface for connection of load cells in hazardous areas
  - Max. 8 load cells of 650  $\Omega$
  - Approved for W&M applications (OIML R 76, class III), 3000 e
- **Data interface PR 1625/60:**
  - Intrinsically safe interface for connection of remote displays in hazardous areas
  - Bidirectional serial interface to and digital inputs from the hazardous area
- **Power supply 24 V<sub>DC</sub> PR 1624/00:**
  - 24 V<sub>DC</sub> output
  - Supply: 110/230 V<sub>AC</sub>
  - LED operating signal

### Profile

The interface PR 1626/60 enables a connection of load cells in hazardous areas and weighing equipment in the safe area including W&M application. The load cell connection can be made using 6 wire technique. The intrinsically safe load cell supply can be selected between 7.5 V or 12 V to limit the current depending on the resistance as required in the hazardous area. The instruments PR 1626 and PR 1625 may be supplied with 24 V<sub>AC/DC</sub> and have to be connected with potential equalization in the safe area.

The interface PR 1625/60 enables a bidirectional data transfer from weighing instruments out of the safe area to electronic equipment within the hazardous area. Additionally two digital signals (e.g. connectors) can be used directly out of the hazardous area. For the serial link into the Ex-area current loop (TTY) is used. In the safe area an optional serial link can be selected between RS232, RS422 | 485 or current loop.

The intrinsically safe part consist of a serial line (TTY), two dig. Inputs, as well as a power source. This power source can be used to supply a remote display, the dig. inputs and the serial line inside the Ex-area.

The power supply PR 1624/00 is used for electronic weighing equipment requiring a 24 V<sub>DC</sub> external supply. For example:

- remote displays
- intrinsically safe interface units
- weighing transmitters, such as PR 1590/xx
- output modules for PLC's

The instrument has to be installed within the safe area.

### Approvals

**PR 1626/60**  
W&M approval OIML R 76 class III 3000 e  
PTB02ATEX2056II(2)G[EEExib]IIB/C

**PR 1625/60**  
PTB02ATEX2055II(2)G[EEExib]IIB/C

### Environmental conditions

**Vibration safety**  
Acc. to IEC 68-2-6, Test Fc

**Static discharge**  
Acc. to IEC 1000-4-2

**Radio noise suppression**  
Acc. to EN 55 011

**Interference on mains and input | output**  
acc. to IEC 1000-4-4

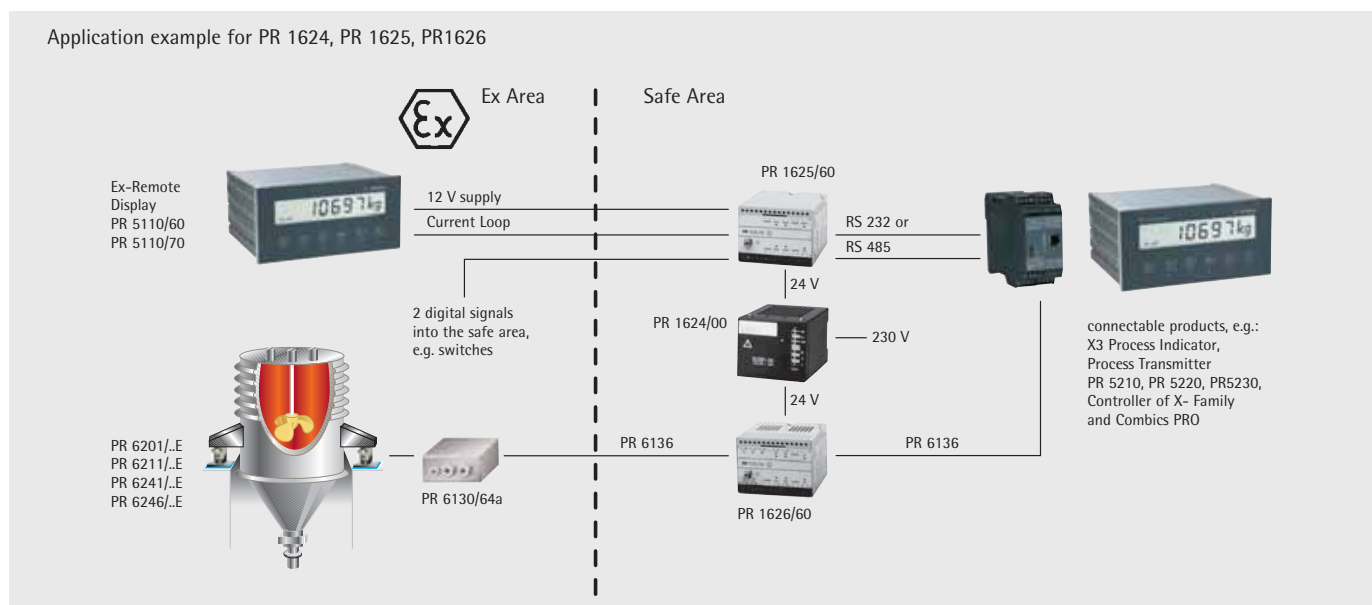
**Electromagnetic fields**  
Acc. to IEC 1000-4-3  
26 MHz to 1 GHz

**Electrical safety**  
Acc. to IEC 1010-1

## Technical Data

| Order number         | PR 1624/00   | PR 1625/60  | PR 1626/60  |
|----------------------|--|---|---|
| Type                 | Power Supply   | Data Interface  | Load cell Interface   |
| Power supply         | 110 V/128 V or<br>220 V/238 V <sub>AC</sub>  | 18 to 33 V <sub>DC</sub><br>18 to 28 V <sub>AC</sub>                                      | 18 to 33 V <sub>DC</sub><br>18 to 28 V <sub>AC</sub>                                      |
| Frequency            | 50/60 Hz ± 2 Hz  | 50/60 Hz ± 2 Hz   | 50/60 Hz ± 2 Hz   |
| Power consumption    | 80 VA  | 6.7 W/11 VA   | 3.8 W/6.6 VA  |
| Output voltage       | 24 V <sub>DC</sub><br>(19-30.5 V in relation<br>to mains and load)                     | 12 V <sub>DC</sub> (max. 120 mA)<br>intrinsically safe                                    | 12 V <sub>DC</sub> at 150 Ω<br>7.5 V <sub>DC</sub> at 80 Ω                                |
| Measuring voltage    |  |   | 0 to 40 mV  |
| Temperature          |  |   |   |
| - Operating          | -10° to +55°C  | -10° to +55°C   | -10° to +55°C   |
| - Storage            | -40° to +70°C  | -40° to +70°C   | -40° to +70°C   |
| - for OIML-class III | -  | -   | -10° to +40°C   |
| Output current       | 1.8 A at 40°C<br>1.5 A at 55°C   | -   |   |
| Housing: - Material  | Ultramid A3K,<br>Polyamid 6.6  | Makrolon  | Makrolon  |
| - Protection class   | IP20   | IP20  | IP20  |
| Mounting             | clip-on mounting on rail<br>acc. DIN EN 50022<br>2 × M4 screw through<br>slotted holes | clip-on mounting on rail<br>acc. DIN EN 50022 or<br>2 × M4 screw through<br>slotted holes | clip-on mounting on rail<br>acc. DIN EN 50022 or<br>2 × M4 screw through<br>slotted holes |
| Netweight            | 2.1 kg   | 0.5 kg  | 0.5 kg  |
| Shipping weight      | 2.6 kg   | 1.0 kg  | 1.0 kg  |
| Dimensions           | 130 × 90 × 112 mm  | 100 × 75 × 110 mm   | 100 × 75 × 110 mm   |

Application example for PR 1624, PR 1625, PR1626



## Order information

| Type       | Description                            | Order number   |
|------------|--|----------------|
| PR 1625/60 | Intrinsically safe Data interface      | 9405 316 25601 |
| PR 1626/60 | Intrinsically safe Load cell interface | 9405 316 26601 |
| PR 1624/00 | Power Supply 24 V                      | 9405 316 24001 |

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