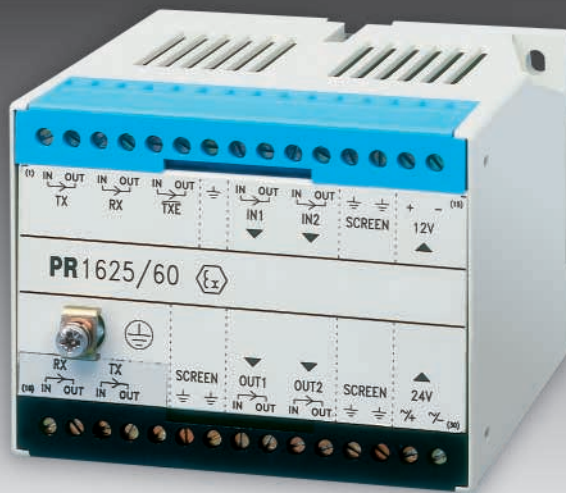




sartorius

## PR 1626/60, PR 1625/60, PR 1624/00 Intrinsically safe interfaces



- **Load cell interface PR 1626/60:**
  - Intrinsically safe interface for connection of load cells in hazardous areas
  - Max. 8 load cells of 650Ω
- Approved for W&M applications (OIML R76, class III), 3000e
- **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 24V<sub>DC</sub> PR 1624/00:**
  - 24V<sub>DC</sub> output
  - Supply: 110/230V<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 7.5V or 12V 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 24V<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 RS 232, RS 422/485 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 24V<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 R76 class III 3000e  
PTB02ATEX2056II(2)G[EExib]IIB/C

#### PR 1625/60

PTB02ATEX2055II(2)G[EExib]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

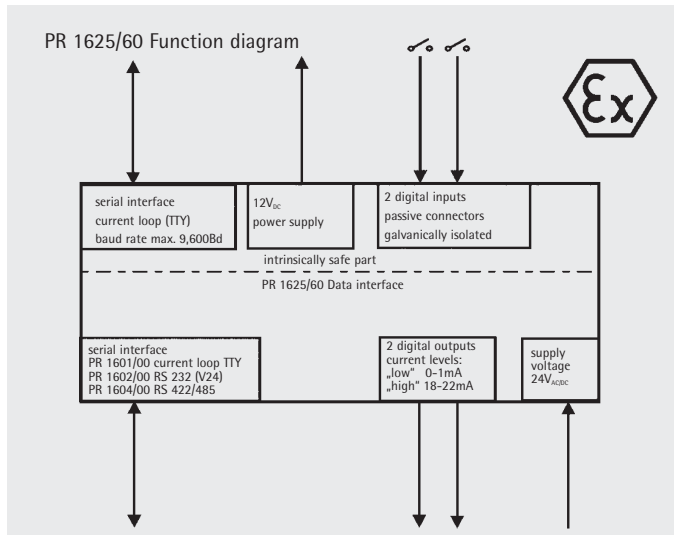
Acc. to IEC 1000-4-3  
26MHz to 1GHz

#### Electrical safety

Acc. to IEC 1010-1

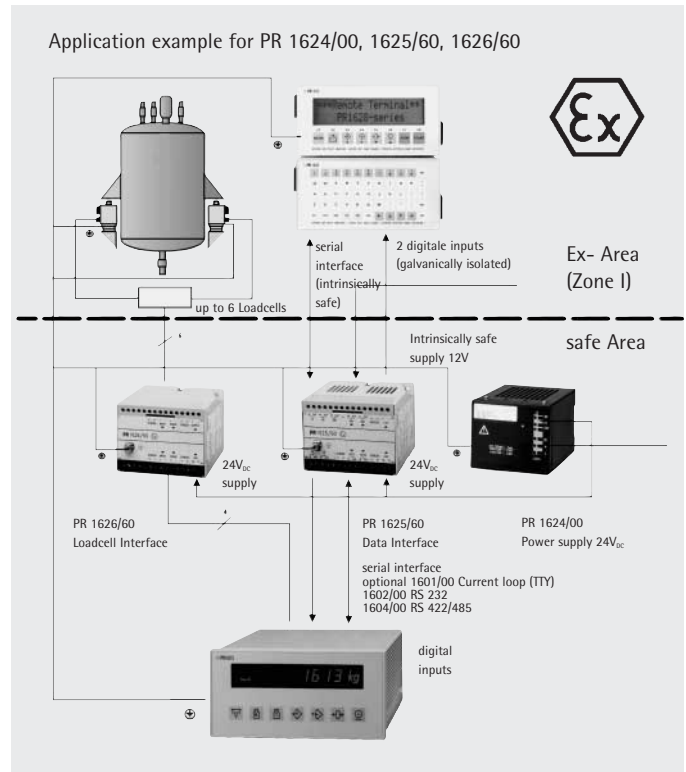
## Technical Data

Order number	PR 1624/00	PR 1625/60	PR 1626/60
Type	Power Supply	Data Interface	Load cell Interface
Power supply	110V / 128V or 220V / 238V <sub>AC</sub>	18 to 33V <sub>DC</sub> 18 to 28V <sub>AC</sub>	18 to 33V <sub>DC</sub> 18 to 28V <sub>AC</sub>
Frequency	50/60Hz ± 2Hz	50/60Hz ± 2Hz	50/60Hz ± 2Hz
Power consumption	80VA	6.7W/11VA	3.8W/6.6VA
Output voltage	24V <sub>DC</sub> (19-30.5V in relation to mains and load)	12V <sub>DC</sub> (max. 120mA) intrinsically safe	12V <sub>DC</sub> at 150Ω 7.5V <sub>DC</sub> at 80Ω
Measuring voltage			0 to 40mV
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	1.8A at 40°C 1.5A at 55°C	-	-
Housing: - Material	Ultramid A3K, Polyamid 6.6	Makrolon	Makrolon
- Protection class	IP 20	IP 20	IP 20
Mounting	clip- on mounting on rail acc. DIN EN 50022 2 x M4 screw through slotted holes	clip- on mounting on rail acc. DIN EN 50022 or 2 x M4 screw through slotted holes	clip- on mounting on rail acc. DIN EN 50022 or slotted holes
Netweight	2.1kg	0.5kg	0.5kg
Shipping weight	2.6kg	1.0kg	1.0kg
Dimensions	130 x 90 x 112mm	100 x 75 x 110mm	100 x 75 x 110mm



## Order information

Type	Description	Order number
PR1625/60	Intrinsically safe Data interface	9405 316 25601
PR1626/60	Intrinsically safe Load cell interface	9405 316 26601
PR1624/00	Power Supply 24V	9405 316 24001



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