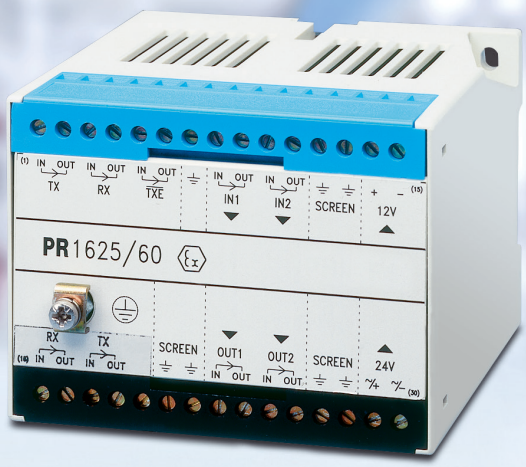
Minebea intec
The true measure

Intrinsically safe interfaces PR 1625 & PR 1626



Explosion protection

Benefits

- For use in hazardous areas
- Suitable for truck scales

PR 1625/60
A compact interface for the intrinsically safe transmission of data and signals, power supply for the EX display PR 5110 incl.

- ATEX approval

PR 1626/6x
Intrinsically safe load cell supply for increased accuracy and thus verifiable* up to 3,000 e

- IECEx and ATEX approvals

The interface PR 1626/6x enables a connection of load cells in hazardous areas and weighing equipment in the safe area including W&M application. Due to the calibration approval*, this includes high-precision applications such as truck scales.

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_{DC} 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, with the remote displays PR 5110/60 or PR 5110/70, another two digital signals, e.g. switch in the Ex area, can be transmitted to the safe 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 consists of a serial interface, two digital inputs and a power source. This power source can be used to supply the remote display PR 5110, the serial interface and the inputs in the Ex area.

* in combination with a weight indicator X3

Load cell interface PR 1626/60 & PR 1626/61

- Intrinsically safe interface for connection of load cells in hazardous areas
- Approved for applications which require verification* (OIML R 76, class III), 3,000 e
- PR 1626/60 has a load cell supply of 12 V
- PR 1626/61 has a load cell supply of 7.5 V

Data interface PR 1625/60

- Intrinsically safe interface for connection of remote displays (PR 5110/60 & PR 5110/70) in hazardous areas. Can choose between 3 different interfaces RS 232, RS 485/422, TTY.
- Bidirectional interface to the Ex-area
- Digital inputs from the Ex-area
- Power supply (12V) for the remote displays PR 5110 in the Ex-area

* in combination with a weight indicator X3

Technical specifications

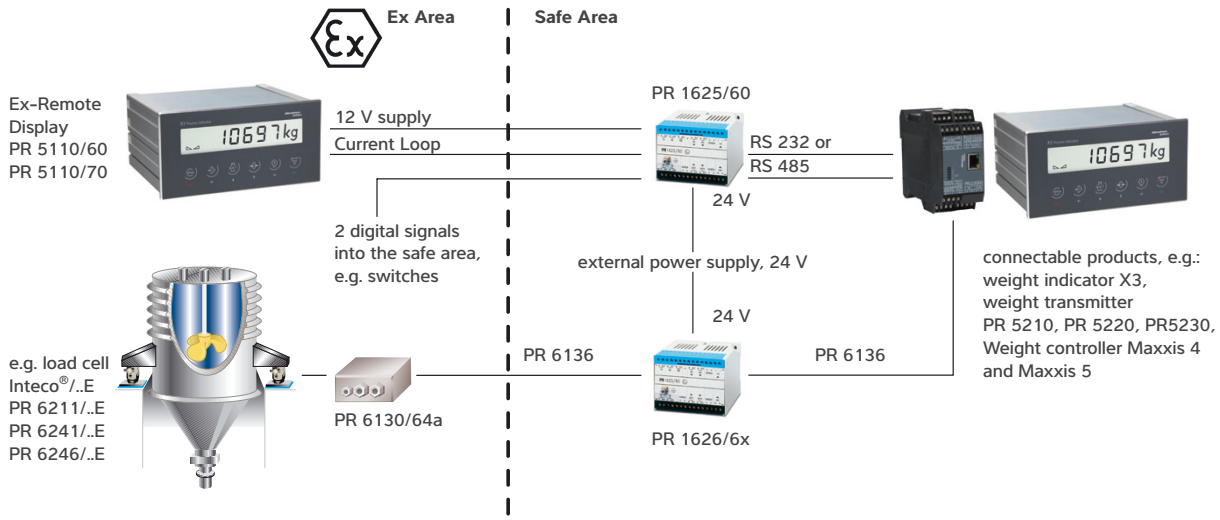
PR 1625/60, PR 1626/60, PR 1626/61

Typ	Data interface	Load cell interface	Load cell interface
Order number	PR 1625/60	PR 1626/60	PR 1626/61
Power supply	18 V to 31.2 V_{DC} 20.5 V to 26.4 V_{AC} (50 – 60 Hz)	SELV 24 V_{DC}	SELV 24 V_{DC}
Power consumption	6.7 W/11 VA	6.6 VA	6.6 VA
Output voltage	2 V_{DC} (max. 120 mA)	12 V_{DC} bis 150 Ω	7,5 V_{DC} bis 80 Ω
Measuring voltage	–	0 to 40 mV	0 to 40 mV
Temperature (Operating)	-10° to +55°C	-10° to +55°C	-10° to +55°C
Temperature (Storage)	-40° to +70°C	-40° to +70°C	-40° to +70°C
Temperature (for OIML-class III)	–	-10° to +40°C	-10° to +40°C
Output current	–	–	–
Housing (Material)	Makrolon	Makrolon	Makrolon
Housing (Protection class)	IP20	IP2a0	IP20
Mounting	– clip-on mounting on rail acc. DIN EN 60715 – 2 × M4 screw through slotted holes	– clip-on mounting on rail acc. DIN EN 60715 – 2 × M4 screw through slotted holes	– clip-on mounting on rail acc. DIN EN 60715 – 2 × M4 screw through slotted holes
Netweight	0.5 kg	0.5 kg	0.5 kg
Shipping weight	1.0 kg	1.0 kg	1.0 kg
Dimensions	100×75×110 mm	100×75×110 mm	100×75×110 mm

Approvals	
PR 1626/6x	– Verification capability in combination with the weight indicator X3 (PR 5410) (OIML R76, class III); 3000 e – ATEX: PTB 02 ATEX 2056 II (2)G [Ex ib] IIC II (2)G [Ex ib] IIB – IECEx: IECEx PTB 18.0032 [Ex ib] IIC [Ex ib] IIB
PR 1625/60	– ATEX: PTB 02 ATEX 2055 II (2)G [Ex ib] IIC II (2)G [Ex ib] IIB

Technical diagrams

PR 1625/60, PR 1626/60, PR 1626/61



Application example for PR 1625, PR1626

Ordering Information

PR 1626/60, PR 1625/60

Model	Description	Order number
PR 1625/60	Intrinsically safe Data interface	9405 316 25601
PR 1626/60	Intrinsically safe Load cell interface (12 V)	9405 316 26601
PR 1626/61	Intrinsically safe Load cell interface (7.5 V)	9405 316 26611

Options for PR 1625/60

Model	Description	Order number
PR 1601/00	Current loop interface (TTY)	9405 316 01001
PR 1602/00	RS232 interface	9405 316 02001
PR 1604/00	RS422/485 interface	9405 316 04001

The products and solutions presented in this data sheet make major contributions in the following sectors:

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