



KELLER

QUICK GUIDE PRESSURE TRANSMITTERS SERIES

23, PD-23, 25
22M, 22S
21C, 23C, 25C
23SX, 23SXc, PD-23X, 33X, PD-33X
35X, 35XHT, 35XHTT, 35XHTC
PD-39X, PRD-33X, 41X, PD-41X
21Y, 21PY, 23SY, 25Y, 25SY
M5HB, M8coolHB, 21PHB, 23SHB, 25HB
21Zio, 23SZio

and various other custom and application specific series



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This quick guide is an extract from the detailed operating instructions for pressure transmitters, which can be found at www.keller-pressure.com for the respective product.

DISCLAIMER

KELLER accepts no liability in case of improper use, damage or modification to the device or failure to observe this quick guide.

INTENDED USE

- Pressure transmitters are used to convert a pressure into a standardised electrical signal.
- Make sure that the device is suitable for your corresponding application. Please get in touch with your direct sales contact if you are unsure of anything.
- The technical specifications listed in the data sheet are only binding insofar as no other agreements have been made.

PRODUCT IDENTIFICATION

	KELLER	SWISS MADE		
Type	PR-21Y	1:	GND	
Range	-1...30 bar	2:	+OUT	
Output	0...10 V	3:	+Vs	
Supply	8...32 VDC	P/N	222155.0279	15/22

Example of label

The label and the specifications on the product serve to identify it. The laser engraving or adhesive label typically contain the following details:

- Product number
- Type designation
- Pressure range
- Output signal
- Supply voltage
- Electrical connections
- Production date

Products with a serial number display this on the metal housing.

MOUNTING

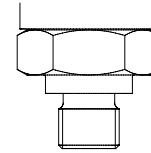
! DANGER: The device may only be installed on systems that are depressurised and de-energised.

! WARNING: For oxygen applications, only the pressure transmitters intended for this purpose and marked accordingly may be used.

! WARNING: The device must not be used in hazardous areas.

- ✓ Ensure no damage is done to the diaphragm. Flush diaphragm pressure connections are to be treated with particular caution. Even tiny deformations can produce an incorrect measurement result.
- ✓ For pressure transmitters with a pressure range > 60 bar a residual amount of oil may remain on the pressure connection.
- ✓ When installing outside, make sure that no moisture can penetrate the device.
- ✓ KELLER pressure transmitters do not require any maintenance. However, annual calibration is recommended for high-precision transmitters.

PRESSURE CONNECTION



Example of a pressure connection

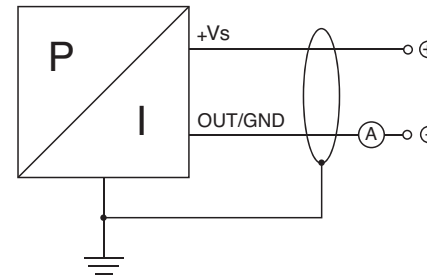
- ✓ Use suitable tools for installation.
- ✓ Make sure to seal the pressure transmitter correctly.
- ✓ Tighten the pressure transmitter with the appropriate amount.

ELECTRICAL INSTALLATION

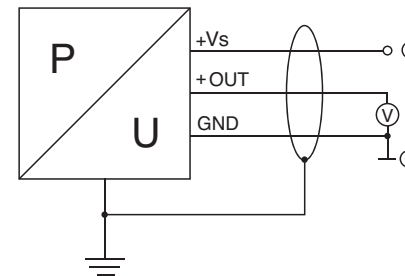
- ✓ Connect the device according to the electrical connections on the label or the specification.
- ✓ Preferably use a shielded multicore cable.
- ✓ The device should be grounded via the pressure connection. If this is not possible, ensure it is adequately grounded via the plug or cable shield.
- ✓ Avoid potential differences between measuring and connection points. The resulting ground loops can lead to a defect of the pressure transmitter.

CONNECTION DIAGRAMS

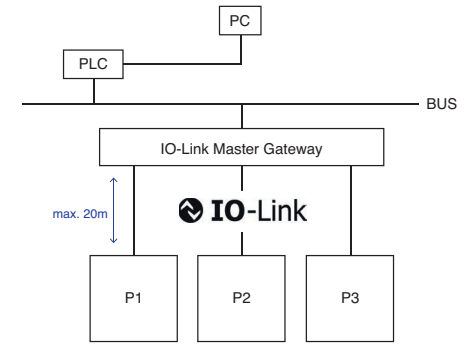
2-wire / 4...20 mA



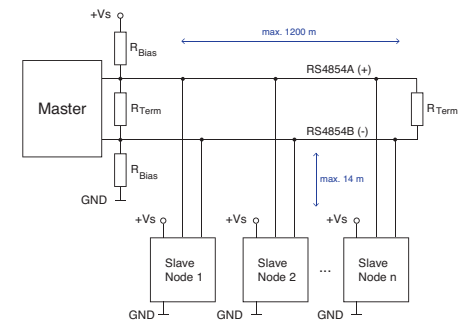
3-wire / 0...10 V / 0,5...4,5 V / etc.



IO-Link



RS485



May vary from series to series. Please see the relevant communication protocol for additional information.

COMMISSIONING

- !** WARNING: Before operating the device for the first time, check whether the device has been installed properly.
- !** WARNING: The device may only be operated by qualified personnel who have read and understood the operating instructions.
- !** WARNING: The device may only be operated within the specifications. See the technical data sheet or the agreed specifications.

