KELLER

QUICK GUIDE
PRESSURE TRANSMITTERS
SERIES

23, PD-23, 25
22M, 22S
21C, 23C, 25C
23SX, 23SXc, PD-23X, 33X, PD-33X
35X, 35HTX, 35HTCX
PD-39X, PRD-33X, 41X, PD-41X
21Y, 21PY, 23SY, 25Y, 25SY
M5HB, M8coolHB, 21PHB, 23SHB, 25HB
21Zio, 23SZio, 23SXio, 25SXio
and various other custom and application specific series

CONTACT

KELLER
Druckmesstechnik AG
St. Gallerstrasse 119
CH-8404 Winterthur
Tel. +41 52 235 25 25
info@keller-pressure.com

KELLER Gesellschaft
für Druckmesstechnik mbH
Schwarzwaldstrasse 17
DE-79798 Jestetten
Tel. +49 7745 9214 0
sales.eu@keller-pressure.com

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 CE

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

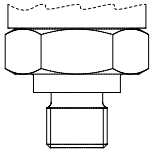
DANGER: The device may only be installed on systems that are depressurised and de-energised.

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

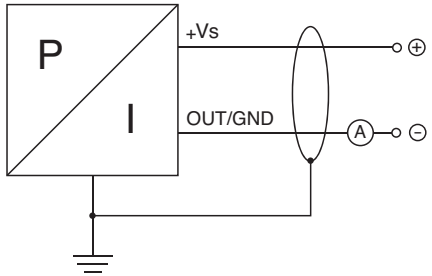
- ✓ Use suitable tools for installation.
- ✓ Make sure to seal the pressure transmitter correctly.
- ✓ Tighten the pressure transmitter with the appropriate amount.

ELECTRICAL INSTALLATION

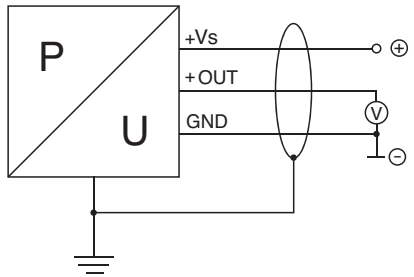
- ✓ Connect the device according to the electrical connections on the label or the specification.
- ✓ Preferably use a shielded multicore cable.
- ✓ The device should be grounded via the pressure connection. If this is not possible, ensure it is adequately grounded via the plug or cable shield.
- ✓ Avoid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

CONNECTION DIAGRAMS

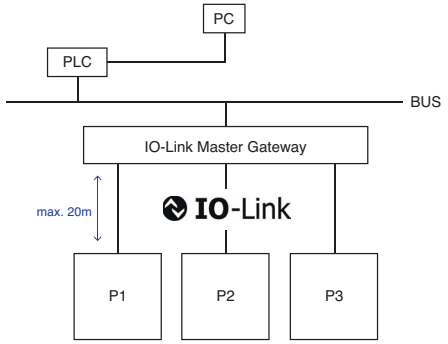
2-wire / 4…20 mA



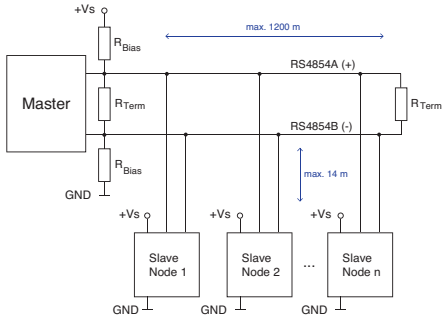
3-wire / 0…10 V / 0,5…4,5 V / etc.



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.

Subject to technical alterations.
450565.0118, Version 03/2025