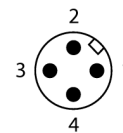
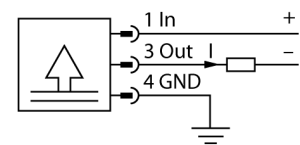


**Pressure Transmitter**  
**With Current Output (2-wire)**  
**PT600R-2003-IX-H1143**



- ATEX category II 1/2 GD, Ex zone 0
- Fully welded metal measuring cell
- Pressure range 0...600 bar rel.
- 10...30 VDC
- Analog output 4...20 mA
- Process connection 1/4"-18 NPT male thread
- Plug-in device, M12 × 1

**Wiring Diagram**



<b>Type designation</b>	PT600R-2003-IX-H1143
Ident-No.	100002251
<b>Pressure range</b>	
Relative pressure	0...600 bar rel. 0...8700 psi 0...60 MPa
Admissible overpressure	≤ 1500 bar
Burst pressure	≥ 2500 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25% FS, according to IEC EN 60770-1
<b>Power supply</b>	
Operating voltage	10...30 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Insulation voltage	750 VDC
<b>Outputs</b>	
Output 1	Analog output
<b>Analog output</b>	
Current output	4...20 mA
Operating range	4...20 mA (2-wire)
Load	≤ (Supply voltage - 10)/20 kΩ
Accuracy LHR analog output	± 0.3 % FS BSL
<b>Temperature behaviour</b>	
Medium temperature	-40...+135 °C
Temperature coefficient	± 0.2 % of full scale/10 K
<b>Ambient conditions</b>	
Ambient temperature	-30...+85 °C
Storage temperature	-50...+100 °C
Vibration resistance	20 g, 15...2000 Hz, 15...25 Hz with amplitude +/-15 mm acc. to IEC 68-2-6
Shock resistance	100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) , acc. to IEC 68-2-27

**Functional principle**

The pressure sensors of the PT...-2000 series operate with a fully welded metal measuring cell. Depending on the sensor variant, the processed signal is available as an analog output signal of either (4...20 mA (2-wire) or 0...10 V, 0...5 V, 1...6 V (3-wire).

<b>Housing</b>	
Housing material	Stainless-steel/Plastic, 1.4404 (316L)/ Polyarylamide 50 % GF UL 94 V-0
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Pressure transducer material	Stainless steel 1.4435 / AISI 316L
Process connection	NPT 1/4"-18 male thread
Wrench size pressure connection / coupling nut	24
Electrical connection	Connector, M12 × 1
Max. tightening torque housing nut	20 Nm

## Pressure Transmitter With Current Output (2-wire) PT600R-2003-IX-H1143

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**Reference conditions acc. to IEC 61298-1**

Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.
Auxiliary power	24 VDC

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**Important note**

**For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL etc.) apply.**

Ex approval acc. to conformity certificate	SEV 10 ATEX 0145
Application area	II 1/2 GD
Ignition protection category	Gas Ex ia IIC; dust Ex ia IIIC

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<b>MTTF</b>	1189 years acc. to SN 29500 (Ed. 99) 40 °C
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# Pressure Transmitter

## With Current Output (2-wire)

### PT600R-2003-IX-H1143

#### Operating manual

##### Intended use

This device fulfills Directive 2014/34/EU and is suited for use in areas exposed to explosion hazards according to EN 60079-0:2012 + A11:2013, EN 60079-11:2012 and EN 60079-26:2015.

In order to ensure correct operation according to the intended purpose, the national regulations and directives must be observed.

##### For use in explosion hazardous areas conform to classification

The sensors may be used only in dust or gas areas

##### Marking (see device or technical data sheet)

II 1/2 GD Ex ia IIC T4 Ga/Gb and Ex ia IIIC T125°C Da/Db acc. to EN60079-0:12+A11:2013

##### Installation/Commissioning

These devices may only be installed, connected and operated by trained and qualified staff. Qualified staff must have knowledge of protection classes, directives and regulations concerning electrical equipment designed for use in explosion hazardous areas.

Please verify that the classification and the marking on the device comply with the actual application conditions.

This device is only suited for connection to approved Exi circuits according to EN 60079-0 and EN 60079-11. Please observe the maximum admissible electrical values.

After connection to other circuits the sensor may no longer be used in Exi installations. When interconnected to (associated) electrical equipment, it is required to perform the "Proof of intrinsic safety" (EN60079-14).

##### Installation and mounting instructions

Avoid static charging of cables and plastic devices. Please only clean the device with a damp cloth. Do not install the device in a dust flow and avoid build-up of dust deposits on the device.

If the devices and the cable could be subject to mechanical damage, they must be protected accordingly. They must also be shielded against strong electro-magnetic fields.

The pin configuration and the electrical specifications can be taken from the device marking or the technical data sheet.

In order to avoid contamination of the device, please remove possible blanking plugs of the cable glands or connectors only shortly before inserting the cable or opening the cable socket.

##### Special conditions for safe operation

The device must be protected against any kind of mechanical damage.

##### Service/Maintenance

Repairs are not possible. The approval expires if the device is repaired or modified by a person other than the manufacturer. The most important data from the approval are listed.