Pressure transmitter Pressurix C

Operating Instructions

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1 General Information

These operating instructions contain information necessary for the proper installation and use of this device. In addition to these instructions, be sure to observe all statutory requirements, applicable standards, the additional technical specifications on the accompanying data sheet (see www.fafnir.com) as well as the specifications indicated on the type plate.

1.1 General Safety Notes

The installation, set up, service or removal of this device must only be done by trained, qualified personnel using suitable equipment and authorized to do so by the plant operator.

Warning
Medium can escape if unsuited devices are used or if they are not installed properly.
Danger of severe injury or property loss
➢ Ensure that the device is suitable for the process and undamaged.

1.2 Intended Use

The device is intended for measuring the relative and absolute pressure of gases, vapors and liquids as specified in the data sheet. For a correct function the permissible overload pressure indicated on the type plate must not be exceeded.

1.3 Conformity with EU Regulations

The CE marking on the devices certifies their compliance with the applicable EU Directives for placing products on the market within the European Union.

2 Transportation and Storage

Store and transport these devices only under clean, dry conditions preferably in the original packaging. Avoid exposure to shocks and excessive vibrations.

Permissible storage temperature: -40…85 °C

3 Installation and Commissioning

Ensure that the device is suitable for the intended application with respect to pressure range, overpressure limit, medium compatibility, temperature range and process connection.

Complete the mechanical installation before making electrical connections.
After the mechanical installation and electrical connection are both complete, the device is ready for use as soon as the power supply is switched on.
3.1 Mechanical installation

Ensure that the used gaskets are compatible with the process connection and resistant to the medium.

There are no restrictions concerning the mounting position of the device.

Before placing the device in service, check it carefully for leaks under pressure.

3.2 Electrical Connection

Complete the mechanical installation before you connect the device electrically. Make all electrical connections with the voltage supply switched off.

output (2-wire) 4…20 mA (20…4 mA)
supply voltage \( U_V = 10…30 \) VDC
allowable load \( R_B \leq \frac{(U_V - 10 \text{ V})}{20 \text{ mA}} \)

The transmitter is grounded via the process connection. Do not wire unconnected terminals (n.c.)!

![M12 connector diagram](image)

![Right angle connector diagram](image)

*Figure 1: Options for the electrical connection*

4 Operation

During device operation, take care that the device remains within its intended temperature range. No other monitoring is necessary.

Permissible process temperature: -20…120 °C
Permissible ambient temperature: -20…85 °C
4.1 Zero point correction

You can correct the zeropoint within ±10 % of the nominal range with a magnet. To do so, hold a permanent magnet (e.g. a pin board magnet) to the position marked on the pressure transmitter (letter in a circle) for ½ to 2 ½ minutes after the power has been switched on. A magnetic field applied outside of this time period has no effect on the setting.

Apply atmospheric pressure when correcting the zero point.

The power must be switched off and on before the zero point can be corrected again.

4.2 Maintenance / Service

When properly installed in accordance with applicable specifications, this device is maintenance-free. However, we recommend an annual recalibration of the device.

5 Removal

De-energize the power supply to the device before disconnecting the electrical connections. Once this is done, the device may be mechanically removed.

**Warning**

Opening pressurized lines might cause severe injuries.

Danger of sever injuries or property loss

- Relieve the process system pressure before attempting to remove the device. Shut off the pressure source for all feed lines and relieve the pressure in them.

Be sure that residue in the process system and in the device itself do not present a danger to humans or the environment. After the device has been removed, seal off the measuring point and mark the open process accordingly.

**Warning**

Removed devices may contain hazardous deposits and residue.

Danger of injury

- Take appropriate precautions when removing or transporting these devices.
EU-Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de Conformité

FAFNIR GmbH
Schnackenburgallee 149 c
22525 Hamburg / Germany

erklärt als Hersteller in alleiniger Verantwortung, dass das Produkt
declares as manufacturer under sole responsibility that the product
declare sous sa seule responsabilité en qualité de fabricant que le produit

Druckmessumformer
Pressure Transmitter
Transmetteur de pression

PRESSURIX ...

den Vorschriften der europäischen Richtlinien
complies with the regulations of the European directives
est conforme aux réglementations des directives européennes suivantes

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durch die Anwendung folgender harmonisierter Normen entspricht
by applying the harmonised standards
par l'application des normes

RoHS / RoHS / RoHS
EMV / EMC / CEM
ATEX / ATEX / ATEX
EN 50581:2012
EN 61326-1:2013
EN 60079-0:2012
EN 60079-11:2012
EN 60079-26:2007

Das Produkt entspricht den EMV-Anforderungen
The product complies with the EMC requirements
Le produit est conforme aux exigences CEM

Störaussendung / Emission / Emission
Störfestigkeit / Immunity / D'imimmunité
Klasse B / Class B / Classe B
Industrielle elektromagnetische Umgebung / Industrial electromagnetic environment / Environnement électromagnétique industriel

Die notifizierte Stelle TÜV NORD CERT GmbH, 0044 hat eine EG-Baumusterprüfung durchgeführt und folgende Bescheinigung ausgestellt
The notified body TÜV NORD CERT GmbH, 0044 performed a EC-type examination and issued the certificate
L'organisme notifié TÜV NORD CERT GmbH, 0044 a effectué examen CE de type et a établi l'attestation

PRESSURIX ... Ex ...

TÜV 13 ATEX118658 X

Das druckhaltende Ausrüstungsteil entspricht dem DGRL-Konformitätsbewertungsverfahren
The pressure accessory complies with the PED conformity assessment procedure
L'accessoire sous pression est conforme avec la procédure d'évaluation DESP de la conformité

PRESSURIX ...

Modul A / Module A / Module A

Ort, Datum / Place, Date / Lieu, Date

Geschäftsführer / Managing Director / Gérant: René Albrecht

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