

# Operating Instructions



<b>1</b>	<b>General Information .....</b>	<b>2</b>
1.1	General Safety Notes .....	2
1.2	Intended Use .....	2
1.3	Conformity with EU Regulations .....	2
<b>2</b>	<b>Transportation and Storage .....</b>	<b>2</b>
<b>3</b>	<b>Installation and Commissioning .....</b>	<b>2</b>
3.1	Mechanical installation .....	3
3.2	Electrical Connection .....	3
<b>4</b>	<b>Operation .....</b>	<b>3</b>
4.1	Zero point correction .....	4
4.2	Maintenance / Service .....	4
<b>5</b>	<b>Removal .....</b>	<b>4</b>

## 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](http://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	$U_V = 10...30 \text{ VDC}$
allowable load	$R_B \leq (U_V - 10 \text{ V}) / 20 \text{ mA}$

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

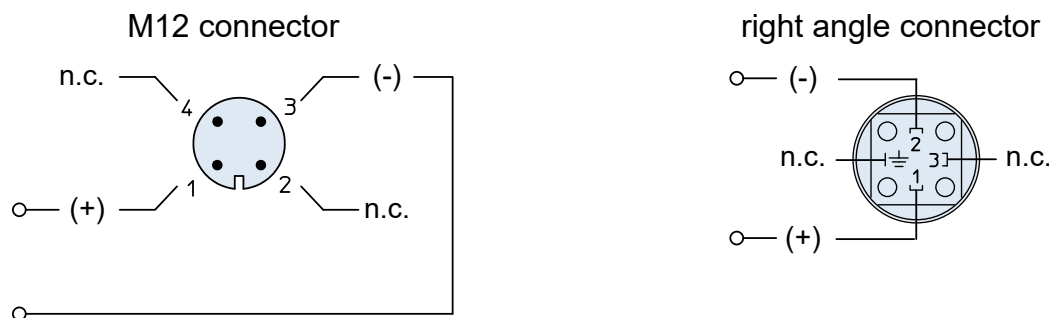


Figure 1: Options for the electrical connection

## 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  $\pm 10\%$  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  $\frac{1}{2}$  to  $2\frac{1}{2}$  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.

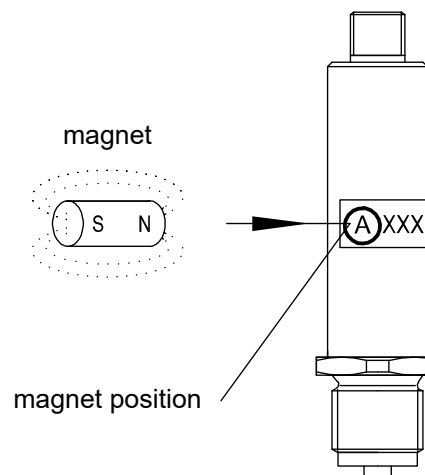


Figure 2: Position for zero point correction

## 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 severe 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  
déclare 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

2011/65/EU	<b>Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten</b>	RoHS
2011/65/EU	<b>Restriction of the use of certain hazardous substances in electrical and electronic equipment</b>	RoHS
2011/65/EU	<b>Limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques</b>	RoHS
2014/30/EU	<b>Elektromagnetische Verträglichkeit</b>	EMV
2014/30/EU	<b>Electromagnetic compatibility</b>	EMC
2014/30/EU	<b>Compatibilité électromagnétique</b>	CEM
2014/34/EU	<b>Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen</b>	ATEX
2014/34/EU	<b>Equipment and protective systems intended for use in potentially explosive atmospheres</b>	ATEX
2014/34/EU	<b>Appareils et systèmes de protection destinés à être utilisés en atmosphères explosibles</b>	ATEX
2014/68/EU	<b>Bereitstellung von Druckgeräten auf dem Markt</b>	DGRL
2014/68/EU	<b>Making available on the market of pressure equipment</b>	PED
2014/68/EU	<b>Mise à disposition sur le marché des équipements sous pression</b>	DESP

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

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

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

<b>Störaussendung / Emission / Émission</b>	<b>Klasse B / Class B / Classe B</b>
<b>Störfestigkeit / Immunity / D'immunité</b>	<b>Industrielle elektromagnetische Umgebung / Industrial electromagnetic environment / Environnement électromagnétique industriel</b>

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

<b>PRESSURIX ... Ex ...</b>	<b>TÜV 13 ATEX 118658 X</b>
-----------------------------	-----------------------------

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

<b>PRESSURIX ...</b>	<b>Modul A / Module A / Module A</b>
----------------------	--------------------------------------

Hamburg, 19.07.2016  
Ort, Datum / Place, Date / Lieu, Date

Geschäftsführer / Managing Director / Gérant: René Albrecht