

► Read and follow these safety instructions first and take notice of the operating instructions.

Safety instructions

1. The installation, initial operation and maintenance may be done by a qualified expert with electrical know-how only.
2. Comply with the local and statutory rules and regulations and/or the VDE 0100.
3. Take notice of the temperature specifications at the data plate.
4. A fuse (with max. 4A) has to be connected in series to the voltage supply.
5. The device may put into operation if it is closed, only.
6. Switch off the power supply, before opening the device.
7. Attention safety device! Don't modify anything at the device!

Operating instructions

1. Description

1.1 Intended use

The electronic pressure transmitter monitors continuously the pressure in a silo or bin.

1.2 Function

Use of pressure variation in a silo or bin. The pressure on the membrane is detected and evaluated by the electronic.

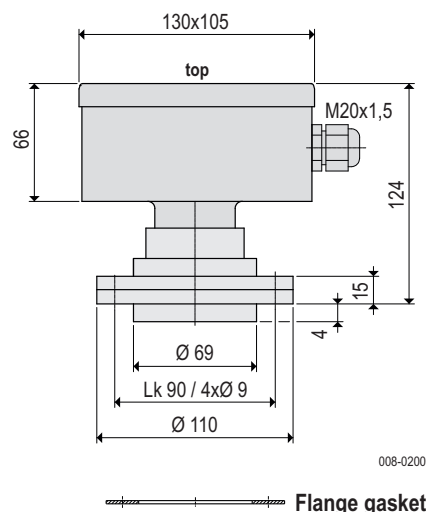
1.3 Technical data

Manufacturer	MOLLET
Address	Füllstandtechnik GmbH Industriepark RIO 103 74706 Osterburken
Name	Silo pressure transmitter
Type	MSD-420.
Bulk good temperature	$-25\text{ °C} \dots +75\text{ °C}$
Ambient temperature	$-20\text{ °C} \dots +70\text{ °C}$
Supply voltage	24 V DC (12 - 28 V DC)
Apparent ohmic resistance	$\leq (U-11) / 0.02 (\Omega)$
Output signal	4 ... 20 mA
Electrical connection	2-wire
Measuring range/relative pressure	0 ... 100 mbar (0 ... 10000 Pa)
Linearity	< 0,5 % FS
Temperature error	0-area 0.02 % FS/K
measuring range	0.02 % FS/K
Overpressure safety	up to 0.5 bar
Relative humidity	acceptable 0 ... 85 %
Cable entry	Cable gland M20x1.5
Type of protection	IP IP65 acc. to DIN EN 60529
Weight	1,1 kg
Maintenance	none
Mounting position	vertical, $\pm 5^\circ$ inclination

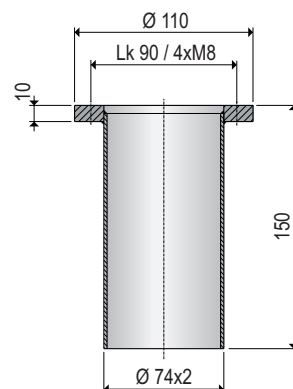
1.4 Material

Housing	ABS (high impact plastic), grey
Flange	Aluminium or stainless steel 1.4571 / 316 Ti
Membrane	Stainless steel 1.4301 / 304
Flange socket	Steel

1.5 Dimensions



1.6 Accessory (option) Flange socket



2. Installation

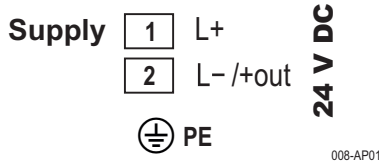
2.1 Preparation

- Check the membrane of visual transport damage.
- Read and follow the safety instructions and the operating instructions, before handling with the device !

2.2 Mounting in the vessel

- Weld the flange socket (as a option) vertical (flange is horizontal) in the silo top.
- Position the pressure transmitter (flange horizontal) with the gasket at the provided flange or flange socket and fix it with 4 washers and screws M8.

2.3 Electrical connection

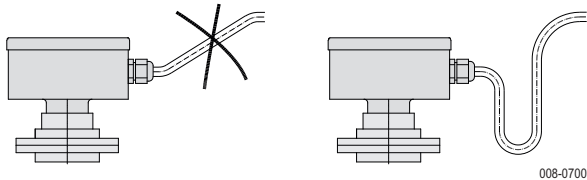


2.4 Cable gland

- After electrical connection, tighten the cable gland.
- Screw the cap nut, until the cable entry is closed tightly.

2.5 Cable run

Run the connection cable in a way that no traction can occur at the pressure transmitter.



3. Use

3.1 Commissioning

- Put the pressure transmitter into operation only, if the installation in the silo or vessel and the electrical connection have been done correctly.

3.2 Normal operation

- Use the pressure transmitter in its intended use only.
- Comply with the specifications on the data plate.
- Damaged devices have to put out of operation immediately.
- The pressure transmitter must not be modified. If there is any modification, the warranty of the manufacturer will be cancelled.

3.3 Inexpert handling

- Ignoring of the safety instructions and the operating instructions.
- Not intended use.
- Modification at the device.
- Violation against applicable law and standards.

4. Maintenance and servicing

4.1 Maintenance

- In case of intended use, the silo pressure transmitter needs no maintenance.

4.2 Servicing

- The servicing of the pressure transmitter may be carried out by the manufacturer only.

5. Storage

- Store the pressure transmitter dry and dust-free.
- Protect the membrane from damage.

6. Disposal

- The pressure transmitter can be recycled.
- The disposal applies to the valid environmental guidelines according to the location of the carrier and the local manufacturing conditions.

EU-Konformitätserklärung EU-Declaration of Conformity

Wir/We

MOLLET Füllstandtechnik GmbH

Industriepark RIO 103
D-74706 Osterburken
Tel. 06291 64400 Fax 06291 9846

erklären in alleiniger Verantwortung, dass das Produkt:
declares under our sole responsibility, that the product:

Silo-Druckmessgerät / Silo pressure measuring device

Typen/Types **MSD-4.., MSD-A...4..**

den folgenden Europäischen Richtlinien entspricht:
conforms with the following European directives:



Richtlinie 2014/30/EU (EMV-Richtlinie) / **Richtlinie 2014/35/EU** (Niederspannungsrichtlinie)
Directive 2014/30/EU (Directive EMC) / **Directive 2014/35/EU** (Low voltage directive)

Angewandte harmonisierte Normen oder normative Dokumente:
Applied harmonized standards or normative documents:

DIN EN 61010-1:2020

DIN EN 60529:2014

DIN EN 61326-1:2013

Und die Geräte mit  - Kennzeichnung entsprechen zusätzlich der folgenden Europäischen Richtlinie:
And the devices with  - marking conform additional with the following European directive:

ATEX-Richtlinie

ATEX directive

2014/34/EU

Je nach Ausführungsvariante angewandte harmonisierte Normen oder normative Dokumente:
Depending on the design applied harmonized standards or normative documents:

DIN EN IEC 60079-0:2019

DIN EN 60079-31:2014

EU-Baumusterprüfbescheinigungsnummer:
EU-Type Examination Certificate:

IBExU21ATEX1015X

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Quality assurance:

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Osterburken, den 05.06.2022



Wolfgang Hageleit
Geschäftsführer / Managing director

Diese Erklärung darf nur unverändert weiterverbreitet werden.
This declaration is only allowed to hand out in unchanged form.