

Silo pressure transmitter

MSD-A...420

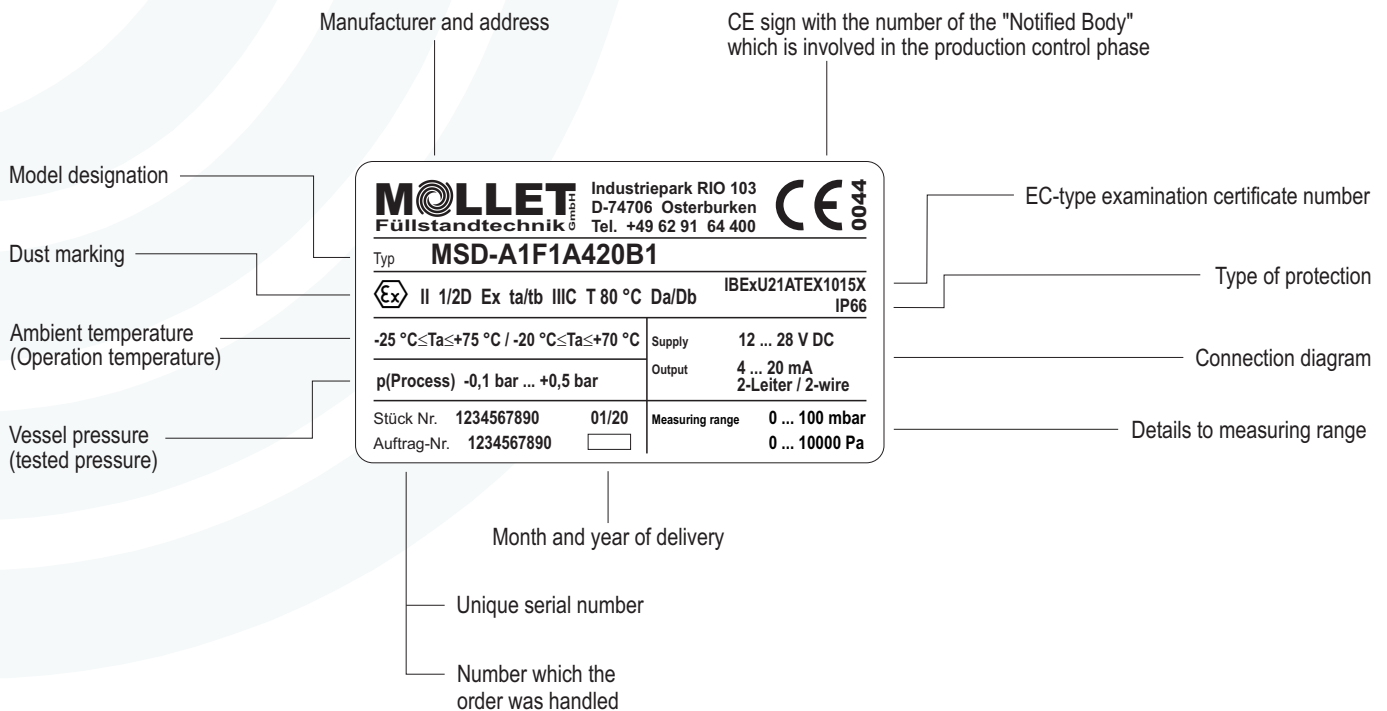
with housing made of aluminium or stainless steel

Dust



Explosion protection information and supplement to the operating instructions

Type plate details



Marking in accordance with ATEX and DIN EN IEC 60079-0:2019

Silo pressure transmitter for use at the boundary from zone 20 to zone 21.

 **II 1/2 D Ex ta/tb IIIC T80°C Da/Db**

Equivalent to **valid ATEX-Product-Directive**

Equipment group **II** = everything except mining

Equipment category **Category 1** for zone 20, 21 and 22
Category 2 for zone 21 and 22

/ = Level indicators,
which are installed on the boundary between different zones

Type of explosive atmosphere **D** = Dust

the **Ex** symbol according to DIN EN IEC 60079-0

t = Protection by enclosure

a = Device with „very high“ protection standard for zone 20, 21 and 22

b = Device with „high“ protection standard for zone 21, and 22

IIIC for flammable conductive dust, flammable non-conductive dust and flammable fibres and flyings

T..°C maximum surface temperature

Equipment Protection Level (EPL)

Type of explosive atmosphere **D** = Dust

a = Device with “very high level of protection” for use in potentially explosive atmospheres where in normal operation, foreseeable or infrequent faults/malfunctions no ignition hazard is given.

b = Device with “high level of protection” for use in potentially explosive atmospheres where in normal operation or foreseeable faults/malfunctions no ignition hazard is given.

Order code **B1**

Marking: II 1D / 2D



Equipment category appropriation by zones

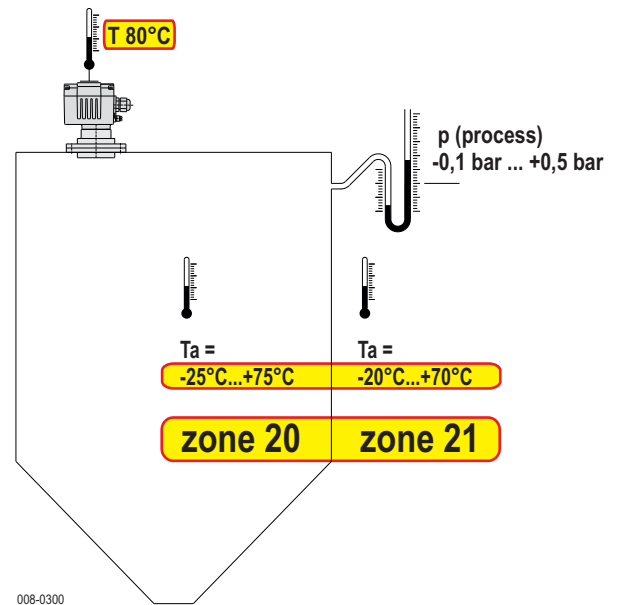
Silo pressure detector for use on the boundary from zone 20 to zone 21.

Ambient temperatures Ta

The ambient temperature T_a defines the maximum operating temperature of the detectors. Inside the vessel this is process temperature (the air or the bulk goods temperature) nearby the device.

Maximum surface temperature T

The maximum surface temperature means the hottest point at the equipment.



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Typ MSD-A1F1A420 B1				
II 1/2D Ex ta/tb III C T 80 °C Da/Db		I BExU21ATEX1015X IP66		
-25 °C ≤ Ta ≤ +75 °C / -20 °C ≤ Ta ≤ +70 °C		Supply 12 ... 28 V DC		
p(Process) -0,1 bar ... +0,5 bar		Output 4 ... 20 mA 2-Leiter / 2-wire		
Stück Nr. 1234567890	01/20	Measuring range 0 ... 100 mbar		
Auftrag-Nr. 1234567890	<input type="text"/>	0 ... 10000 Pa		



Special conditions and instructions for safe application

1. The installation, maintenance, initial operation, removal and repair have to be controlled resp. checked by an “authorized person” for explosion protection.
2. For the electrical connection you have to take notice of the local and statutory requirements and/or the VDE 0100.
3. Take notice of the specifications on the data plate.
4. A fuse (with max. 4A) has to be connected in series to the voltage supply.
5. As soon as the device will be brought into the explosion hazardous area it has to be mounted immediately at the pre-caused place and a cable has to be brought into the cable gland.
6. Using the device in ambient temperatures $> +60\text{ °C}$, the applied connection cables have to be made for temperatures of min. $+80\text{ °C}$.
7. The cable gland and the plug screw were screwed and protected at the factory. Please check if they have loosened during on the mounting or at the transport. When it is loosened, it has to be fitted again.
8. To secure the type of protection, the screw nut of the cable gland has to be fixed at the installation with a torsional force of min. 5.0 Nm.
ATTENTION! If it will be fastened too strong, the IP-protection can be affected.
9. The earth connection of the device has to be installed in such a way that mechanical damage will be excluded.
10. The device may put into operation with intact cap-sealing and when it is closed, only.
11. Switch off the power supply, before opening the device. (touchdangerous voltage)
12. In case of existing combustible dusts with a minimum ignition energy less than 3 mJ or with a minimum ignition temperature under $+300\text{ °C}$ (BAM assessment), the parts in contact with the dust must be made of stainless steel.
13. Take notice of the requirements of DIN EN 60079-14, DIN 60079-17 and DIN EN 1127-1, especially regarding the dust deposits and temperatures and follow the pertinent rules and regulations.