

Silo pressure detector

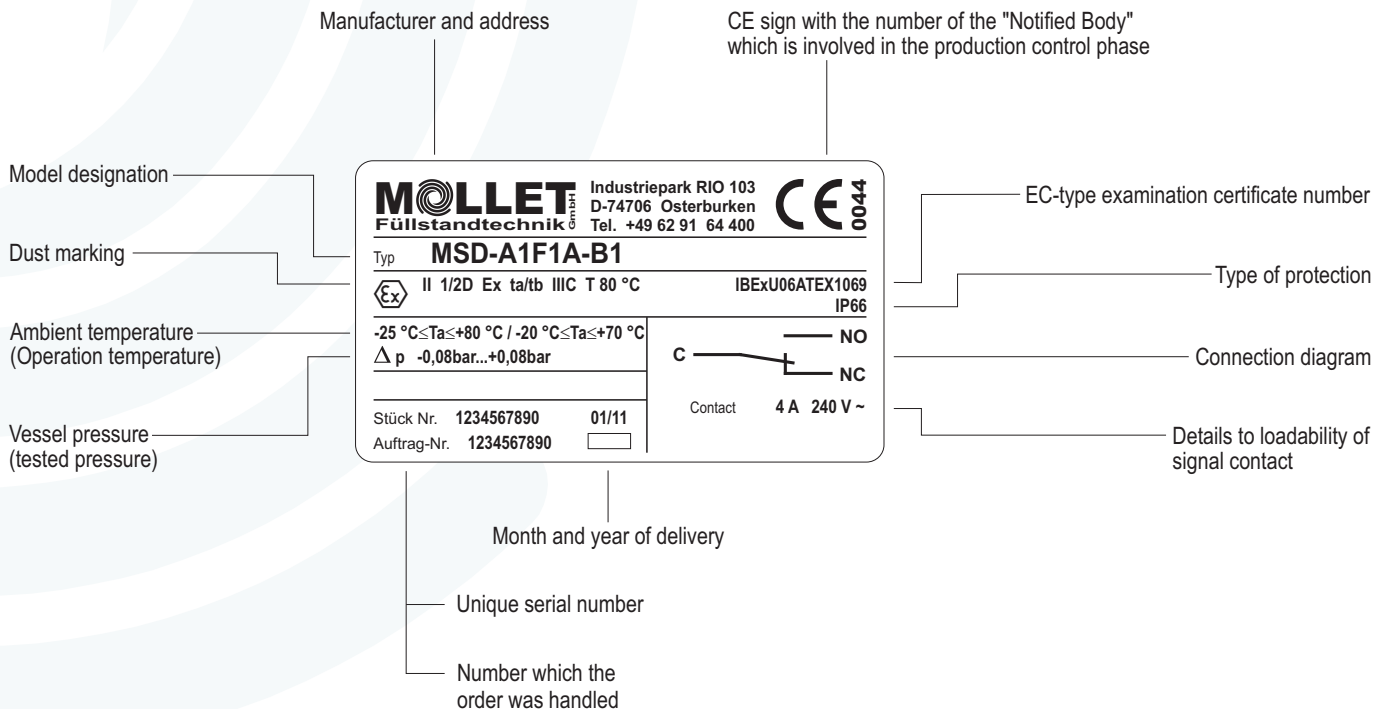
MSD-A

Dust



Explosion protection information and supplement to the operating instructions

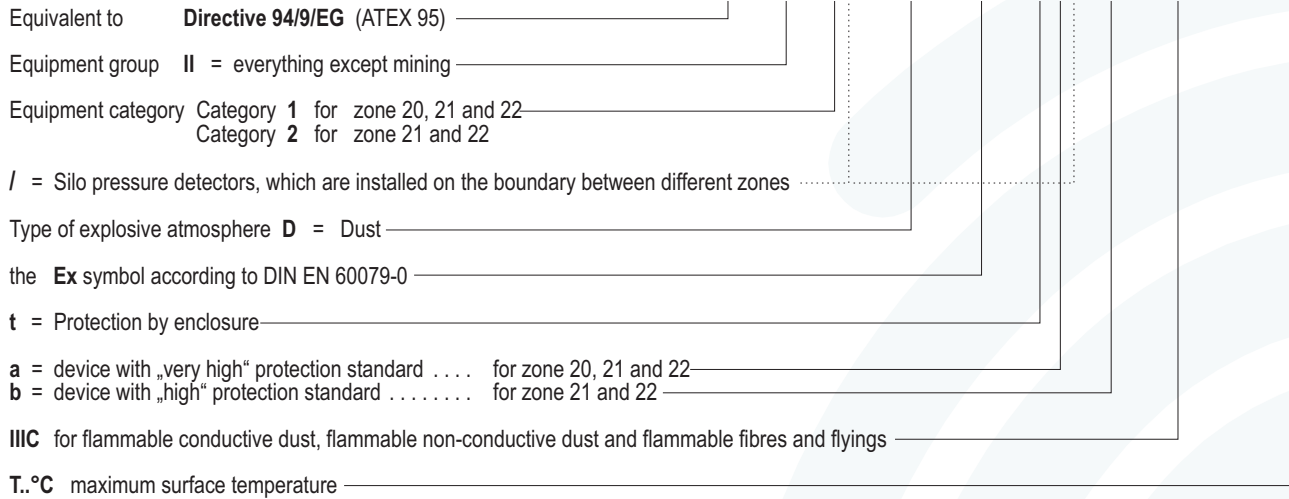
Type plate details



Marking in accordance with ATEX 95 and DIN EN 60079-0:2009

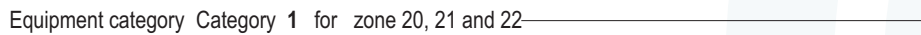
Silo pressure detector for use on the boundary from zone 20 to zone 21.

 **II 1/2 D Ex ta/tb IIIC T80°C**



Silo pressure detector for use in zone 20.

 **II 1 D Ex ta IIIC T80°C**



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.

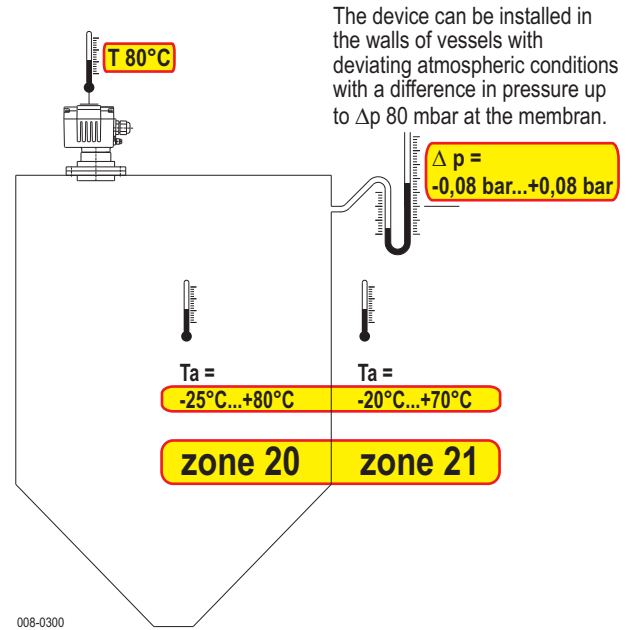
Ambient temperatures T_a

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.

MOLLET Füllstandtechnik GmbH		Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	CE 0044
Typ	MSD-A1F1A B1		
Ex	II 1/2D Ex ta/tb IIIC T 80 °C	IBExU06ATEX1069 IP66	
-25 °C ≤ Ta ≤ +80 °C / -20 °C ≤ Ta ≤ +70 °C			
Δ p -0,08bar...+0,08bar			
Stück Nr.	1234567890	01/11	
Auftrag-Nr.	1234567890		
C		NO	
		NC	
Contact		4 A 240 V ~	



Order code **B2**

Marking: II 1D



Equipment category appropriation by zones

Silo pressure detector for use in zone 20.

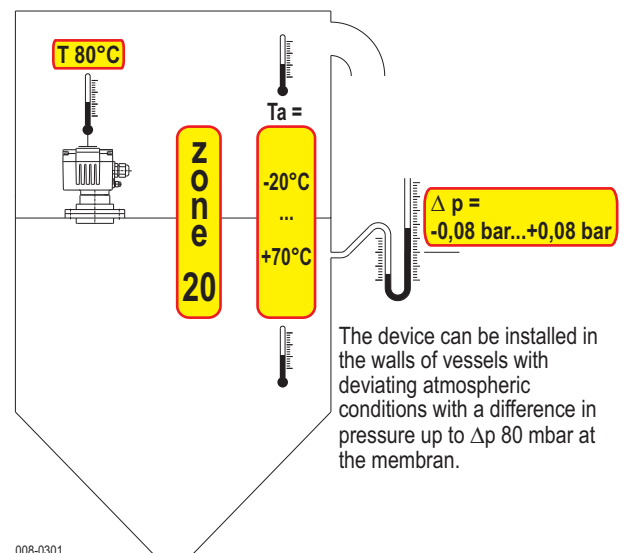
Ambient temperatures T_a

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.

MOLLET Füllstandtechnik GmbH		Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	CE 0044
Typ	MSD-A1F1A B2		
Ex	II 1D Ex ta IIIC T 80 °C	IBExU06ATEX1069 IP66	
-20 °C ≤ Ta ≤ +70 °C			
Δ p -0,08bar...+0,08bar			
Stück Nr.	1234567890	01/11	
Auftrag-Nr.	1234567890		
C		NO	
		NC	
Contact		4 A 240 V ~	





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. Protect the signal contact from voltage peaks when inductive loads are connected.
6. 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.
7. Using the device in ambient temperatures $> +60\text{ °C}$, the applied connection cables have to be made for temperatures of min. $+80\text{ °C}$.
8. 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.
9. 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.
10. The earth connection of the device has to be installed in such a way that mechanical damage will be excluded.
11. The device may put into operation with intact cap-sealing and when it is closed, only.
12. Switch off the power supply, before opening the device. (touchdangerous voltage)
13. Using the Silo pressure detector in the silo wall under deviating atmospheric conditions the maximum differential pressure has not to exceed 80 mbar and the working temperature has not to exceed $+80\text{ °C}$ at the membran.
14. 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.
15. 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.
16. **ATTENTION safety device!**
Don't modify anything at the device or at the switching point adjusting!