

Membrane level indicator
MFE-A with aluminium housing

MFE-A

Dust



Explosion protection information
and supplement to the operating instructions

Type plate details B1



Manufacturer and address

CE sign with the number of the "Notified Body" which is involved in the production control phase

Model designation

Unique serial number

Number which the order was handled

Month and year of delivery

Dust marking

Ambient temperature (Operation temperature)

EU-type examination certificate number

MOLLET Füllstandtechnik GmbH		Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400		0044	
Typ MFE-A..-B1		II 1/2D Ex ta/tb IIIC T 83°C Da/Db		Contact 4 A 240 V~	
S# 1234567890 A.- Nr. 1234567890		03/21		-25 °C ≤ Ta ≤ +80 °C	
1234567890		IBExU06ATEX1068		IP66	

Connection diagram

Details to loadability of the signal contact

Type of protection

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

Membrane level indicator for use on the boundary from zone 20 to zone 21.

Ex II 1/2 D Ex ta/tb IIIC T83°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

D = Dust - Type of explosive atmosphere

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)

D = Dust - Type of explosive atmosphere

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

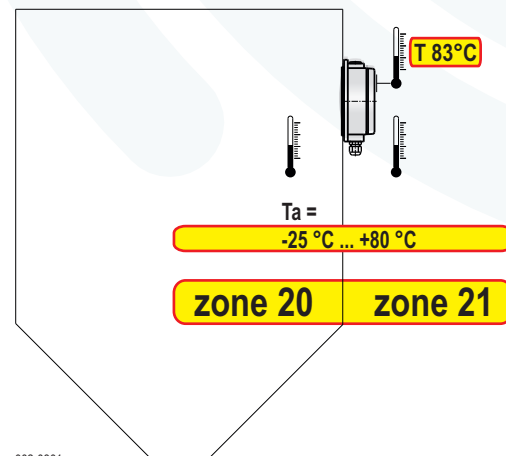
Membrane level indicator for use an on the boundary from zone 20 to zone 21.

Ambient temperatures Ta

The ambient temperature Ta defines the maximum operating temperature of the indicators. 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.



	Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400		C — NO — NC
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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. Using the device in ambient temperatures > +60 °C, the applied connection cables have to be made for temperatures of min. +80 °C.
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. The cable gland were screwed and protected at the factory. Please check if the cable gland have loosened during on the mounting or at the transport. When it is loosened, it has to be fitted again.
7. 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 Nm.
ATTENTION! If it will be fastened too strong, the IP-protection can be affected.
8. The earth connection of the device has to be installed in such a way that mechanical damage will be excluded.
9. The device may put into operation with built-in cap-sealing and when it is closed, only.
10. Switch off the power supply, before opening the device. (touchdangerous voltage)
11. Depending on the bulk goods characteristics and the wear, the carrier has to define resp. to find out in which intervals the membrane of the level indicator has to be checked for leakage to keep the type of protection (Dust-proof). This inspection has to be repeated regularly. If there is a fault, the membrane has to be replaced with a new membrane.
12. Take notice of the requirements of DIN EN 60079-14, DIN EN 60079-17 and DIN EN 1127-1, especially regarding the dust deposits and temperatures and follow the pertinent rules and regulations.
13. A fuse (with max. 4A) has to be connected in series to the voltage supply.
14. Protect the signal contact from voltage peaks when inductive loads are connected.

