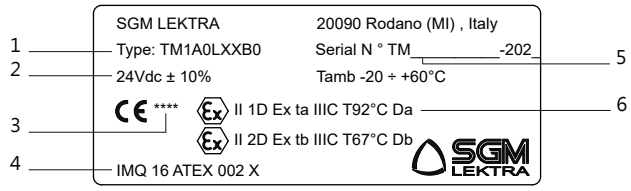
TM

safety, installation, use and maintenance instructions

Warning: This document is an integral part of the 825_141_ manual and must be read and understood in conjunction with it

Multipoint digital probe for temperature measurement in tanks and storage silos
European directive: 2014/34/UE
ATEX reference: CEI EN 60079-0: 2018 ; Cei EN 60079-31:2014
Nominal characteristics, marking
Model: TM
ATEX code: II 1D/2D
Protection mode: ta IIIC Da / tb IIIC Db
Ambient temperature: -20 ÷ +60°C
Protection degree: IP66
Maximum measurable temperature: +125°C

1 - CERTIFIED ATEX VERSION IDENTIFICATION



1. Product code
2. Power supply
3. Certifying body identification code
4. Certificate number
5. Serial number
6. Marking

2 - SAFETY INSTRUCTIONS

This temperature probe is designed to be installed in potentially explosive atmosphere for the combustible dust presence.
Make sure that the device marking is in compliance with the area classification; do not install the device in the explosive gases presence (0, 1 or 2 zone).
Verify that the probe installation does not affect to the degree of protection.
Device improper use may cause damage to people, to the product and connected equipment.
Always observe the nameplate data for the power supply and the electrical connections.

3 - INSTALLATION AND COMMISSIONING

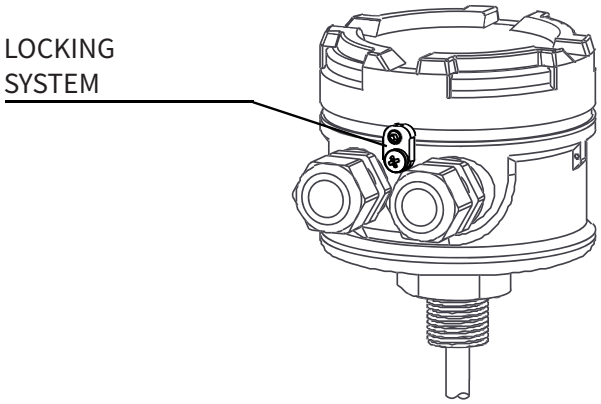
The installation must be performed only by qualified and properly trained personnel in accordance with current regulations EN 60079-14.
The equipment must be used only after having correctly understood the instructions in this document, together with the 825_141_ manual (latest revision).
The device must be mounted so as to minimize the risk of shock to the housing and to the sensitive part.
Use only the threaded connection (32mm wrench) to insert the probe in the process; do not use the housing to manually screw the sensor to the process.
Properly Tighten the cable glands and the cover, taking care to correctly insert the open-locking device as shown below
When necessary, replace the cable entries with other similar devices, make sure that the new cable gland marking is suitable for the installation area (1D for zone 20; 2D zone 21; 3D for Zone 22) and that the minimum degree of protection is respected (IP6X).

N.B. Failure to connect the earthing of the TM probe as indicated in the manual will automatically result in the forfeiture of the ATEX certification because it does not comply with the certificate's instruction in point [17] of the special conditions of use.

Connect the cable shield to "SCH" connection that is equipotential with the ground connection of enclosure.
For flange mounting or under the roof, use only the accessories provided in the SGM LEKTRA catalog.
For "ta" application only, be sure that the primary supply device for the system have a breaking capacity ≥ 1500A.

4 - HOUSING OPENING LOCKING DEVICE

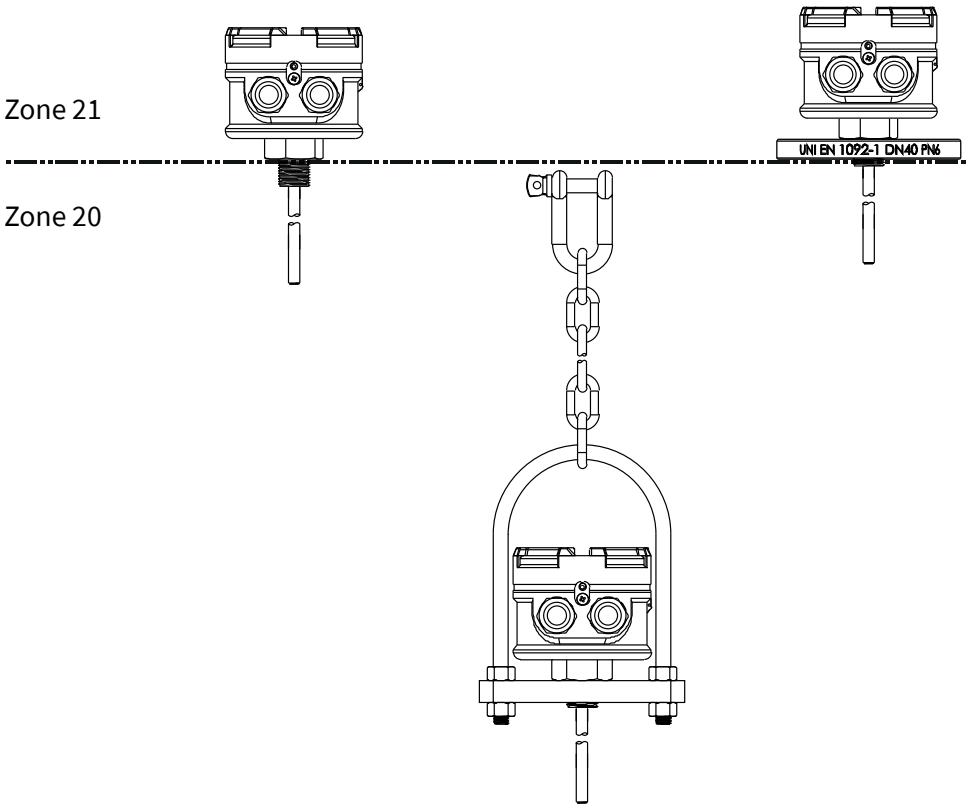
The ATEX certified probe version has a locking system to prevent accidental cover opening. The system consists of a threaded pin, which is tightened to a groove present in the cover by means an Allen key # 2. This system ensures an effective prevention against the opening. To give effect to the cover locking, the cover must be screwed to the end, then, screw the threaded pin until it engages in the cover anti-rotation groove.



5 - MAINTENANCE

The checks and maintenance should be performed only by properly trained personnel, in accordance with the European standards EN 60079-17 requirements. If it were necessary open the housing when the probe is energized, be sure to remove all dust from the housing and prevent the accumulation of dust inside the housing during maintenance.
Any unauthorized modification to the probe, raises SGM LEKTRA from all liability and will void its warranty

6 - ATEX ZONE IDENTIFICATON



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