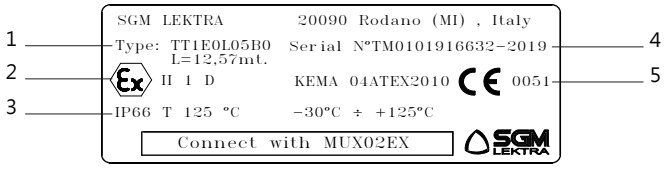
TT/MUX02EX

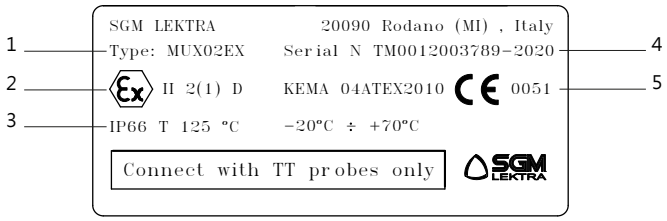
safety, installation, use and maintenance instructions

Warning: This document is an integral part of the 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: 50014:197 ; 50281-1-1:98 in compliance to EN 60079-0: 2018 ; EN60079-31: 2014 Model : TT ATEX Group and category: II 1D Protection mode: by housing “ta” Protection degree: IP66 Maximum measurable temperature: +125°C Ambient temperature: -30°C ÷ +125°C	Power unit for the reading and the re-transmission of the temperature detected by TT probes. European directive: 2014/34/UE ATEX reference: 50014:197 ; 50281-1-1:98 in compliance to EN 60079-0: 2018 ; EN60079-31: 2014 Model: MUX02EX ATEX Group and category: II 1D Protection mode: by housing “tb” Protection degree: IP66 Ambient temperature: -20°C ÷ +70°C Power supply: 230V 50Hz

1 - CERTIFIED ATEX VERSION IDENTIFICATION





1. Product code
2. Marking
3. Protection degree
4. Serial number
5. Certifying body identification code

IMPORTANT:
OVER 80 °C RATING CABLE MUST BE USED ONLY

2 - SAFETY INSTRUCTIONS

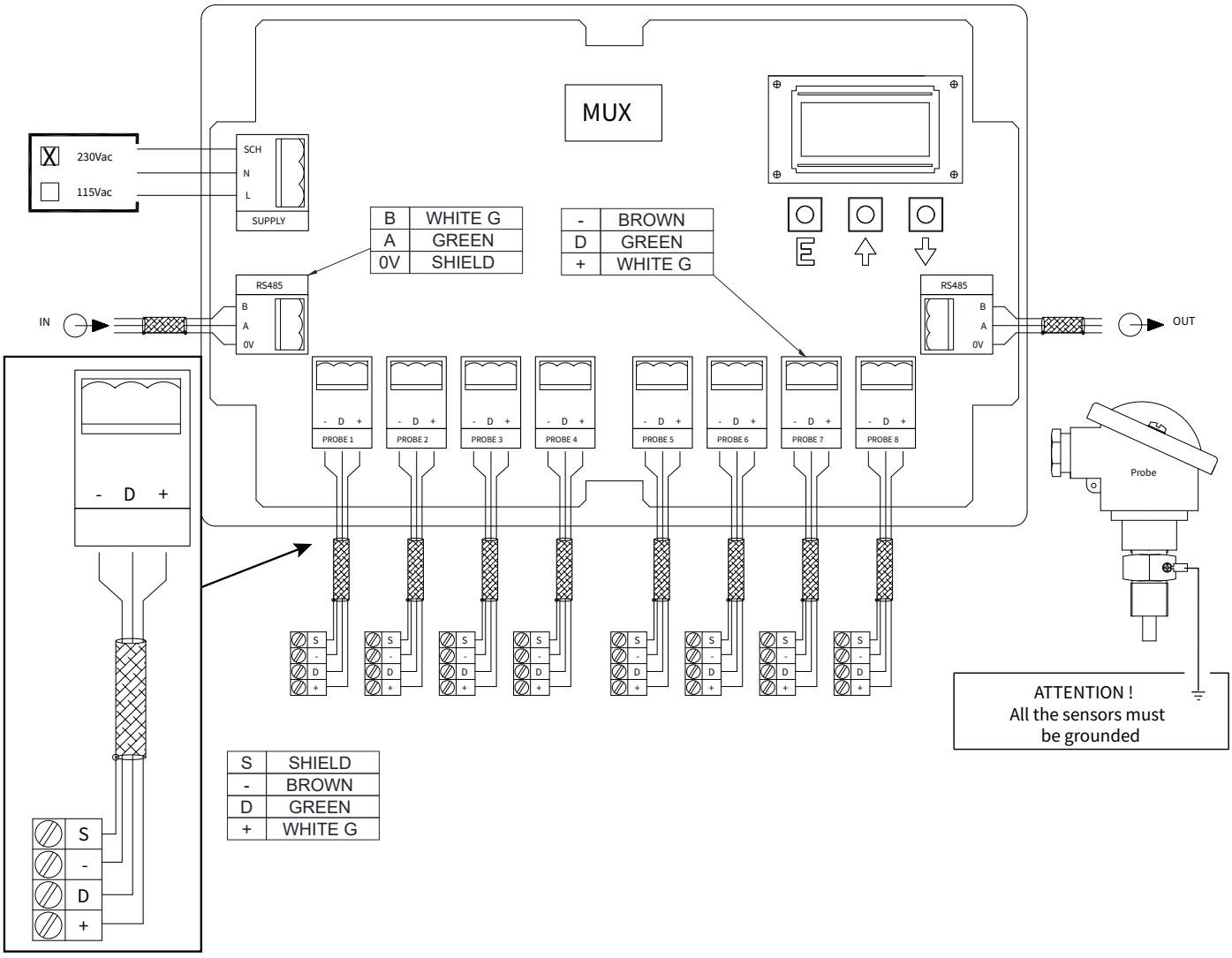
The probes and the power unit are suitable for the installation in potentially explosive atmosphere for the presence of combustible dust.
Make sure that the devices marking is in compliance with the area classification; do not install the devices in presence of explosive gases (zone 0, 1 or 2).
Verify that the instruments installation does not affect the protection degree.
Device improper use may cause damage to people, to the product and the connected equipments.
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 the current Regulation EN 60079-14.
The equipments must be used only after having correctly understood the instructions provided on this document and on the manual.
The devices 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 probes in the process; do not use the housing to manually screw the sensor on the process.
Always connect the cable shield to “SCH” connection that is equipotential with the ground connection of enclosure.
For flange mounting or under-roof mounting use only the accessories listed on SGM LEKTRA catalog.
TT probes can be connected exclusively to MUX02EX concentrators; any other connection compromises the security and invalidates the method of protection.

4 - ELECTRICAL CONNECTIONS

- Remove the closing cover and the caps from the cable glands.
- Insert the connection cables between the TT probes and MUX by passing them through the cable glands.
- Connect the cables to the appropriate terminals as indicated in the subsequent paragraphs.
- Fully tighten the cable glands and the cover to ensure IP66 protection (refer to par. 7 – Tightening torque)

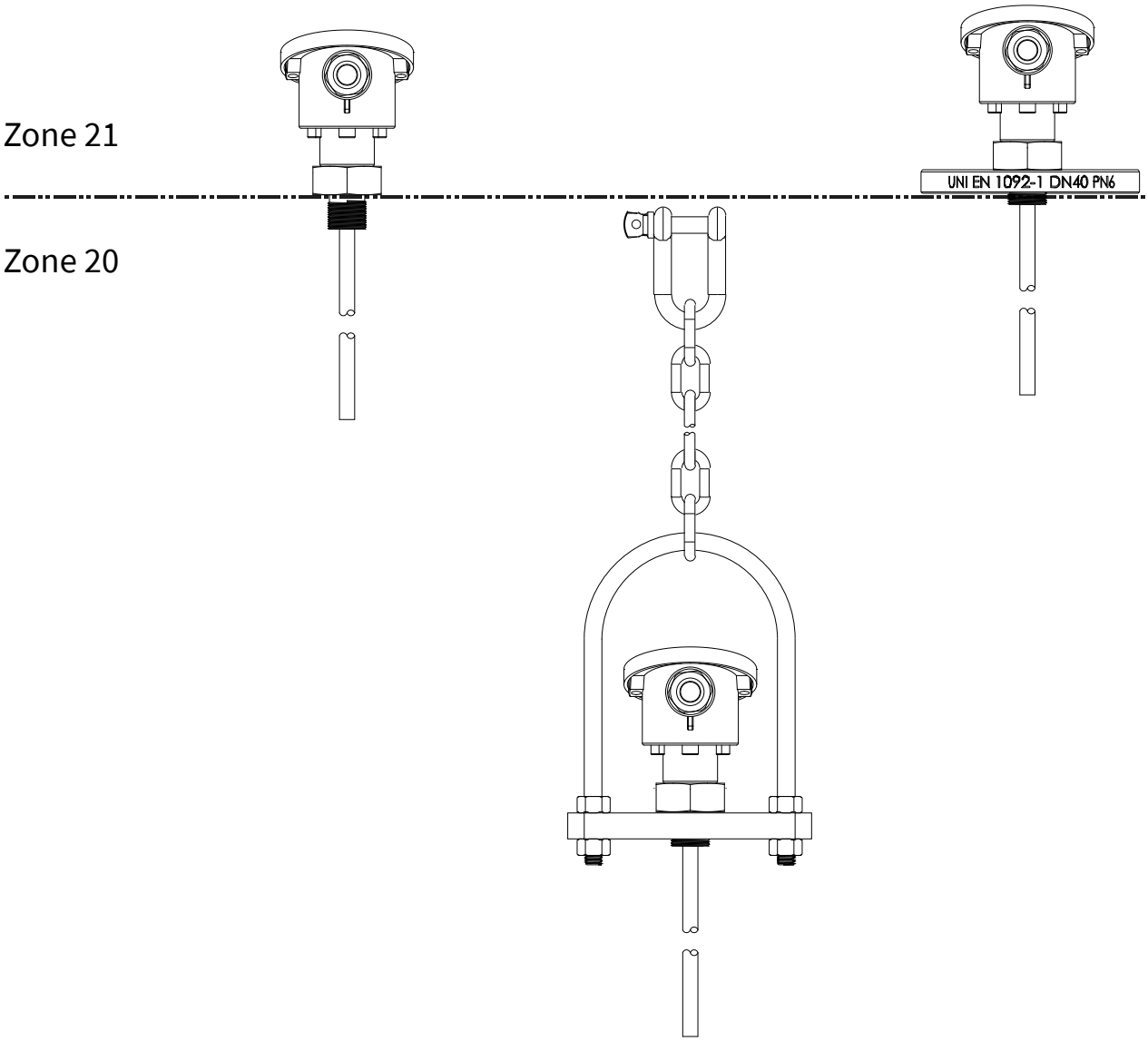


Electrical connections between TT sensors and MUX02EX unit must be made with shielded-cable FTP4 4x2x24 AWG or equivalent.
The shield must be connected to the “S” TT sensor main connector only!
Connection cable limit-lenght from MUX02 to TT sensor is 50m, be sure to place it far from power cables.
WARNING !
The reverse connection of the cables can demage the TT sensors.

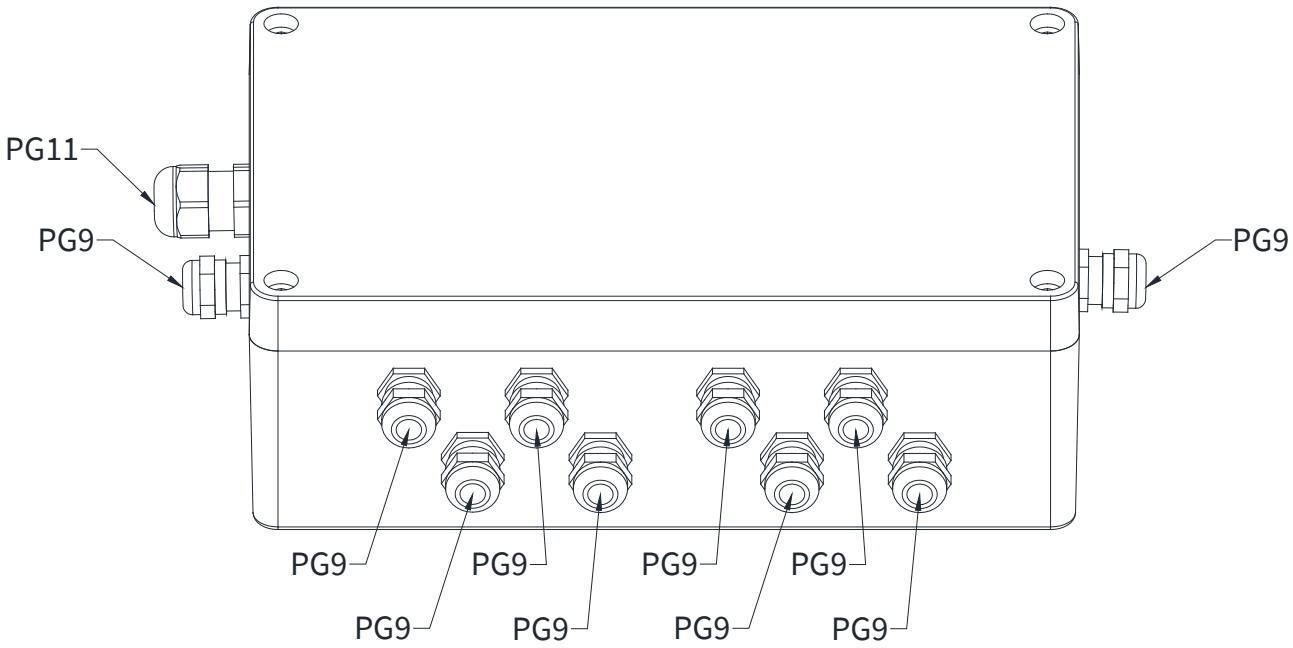
5 - MAINTENANCE

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

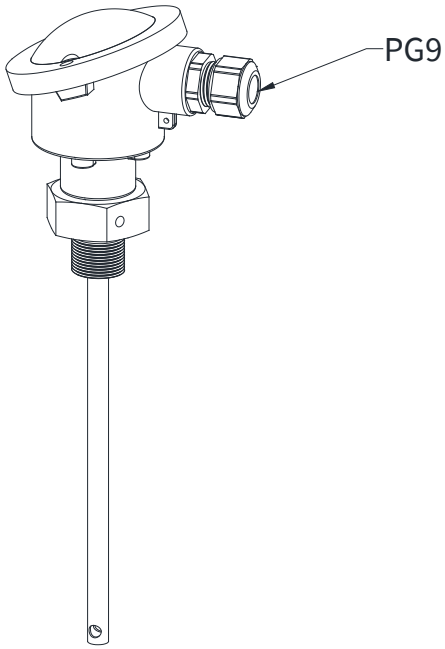
6 - ATEX ZONE IDENTIFICATON



7 - TIGHTENING TORQUE



Tightening torque in Nm		
PG	**MUX02EX**	**TT**
9	2,5	6
11	3,5	-



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