

2 - Safety instructions



Explosion danger!

Failure in complying with the instructions reported in this document can lead to severe injuries. Compliance with these additional safety instructions do not relieve the user from a correct device usage and from complying with the standard manual and manufacturer's instructions.

Warning: refer to specific safety and manufacturer's instructions for any accessory connected to the equipment.

2.1 - General Safety Instructions

This equipment does not show any potential sources of ignition during normal operation or in case of expected malfunction, as long as following measures are implemented:

- Using ATEX certified accessories only, suitable for the required application;
- Compliance with these additional instructions;
- Compliance with standard manual and manufacturer's instructions;
- Never use the equipment on a duty exceeding its prescribed operating parameters;
- Never modify or alter actuators unless the manufacturer has been consulted;
- The equipment is intended for use in connection with other equipment/devices. User is responsible for the risk assessment of the complete assembly depending on Area classification.
- Observe all other site Health and Safety Rules (classified area) where the equipment is installed, in accordance with the risk assessment conducted by the User.

2.2 – Installation & Maintenance

Installation & Maintenance must be performed by qualified personnel only, with adequate tools. The work environment and the plant where the equipment must be installed should be in safety conditions before performing any operation.

- User must comply with safety requirements stated in Instruction Manual;
- This equipment is not a safety device and must be controlled by other devices.



2.3 – Operating media

Operating media must be NON-explosive and NON-corrosive.

2.4 - Surface temperature

As per EN 13463-1:2009, sect. 9, the temperature class rating and maximum surface temperature depend on ambient and operating conditions. In addition, following points must be considered:



Under constant use, the surface temperature of exposed parts may rise by 5°C max. above the environmental temperature.



Solar radiation or external heat sources may cause unexpected rise in surface temperature. If needed, provide for adequate insulation and/or cooling devices.

Safety factors provided by EN 1127-1:2009 §6.4.2 and EN 13463-1:2009 §6.2.7 must be considered:

- For use in areas with presence of explosive atmosphere, the maximum surface temperature should be lower than the ignition temperature. In addition, if *“it cannot be excluded that the gas or vapour can be heated to the temperature of the surface, this surface temperature shall not exceed 80% of the auto ignition temperature of the gas or vapour measured in °C”*;
- For use in areas with presence of dust clouds, the maximum surface temperature *“shall not exceed 2/3 of the minimum ignition temperature in °C of the dust cloud”*;
- For surfaces with possible dust layer deposition, the maximum surface temperature should be 75 °C lower than the ignition temperature of the dust layer.



2.5 - Electrical issues.

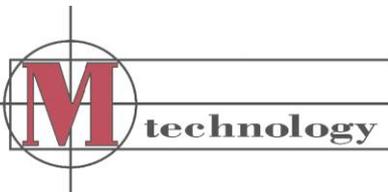
This equipment has been designed to ensure electrical conductivity.

This equipment must be properly grounded in order to avoid static charges accumulation.

2.6 - Cleaning

Reduce as much as possible accumulation of potentially explosive dust through careful and frequent cleaning operations and / or through proper protections. To clean the equipment, use damp clothes only.

*Emme Technology Srl guarantees the products only if used in accordance with catalog and instruction manuals.
Additional requirements must be communicated to Emme Technology Srl by means of commercial documents;
otherwise only characteristics stated in catalogs are fulfilled*



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