

## User manual supplement

# Use in hazardous locations



This document is intended to supplement the primary user manuals for S200 and S300 series dust monitors. Refer to the primary user manual for general information about safety, installation, commissioning, operation and maintenance of your dust monitor.

This user manual supplement provides additional safety instructions and technical specifications for the use of Ex models of S200 and S300 series dust monitors in hazardous locations.

This appendix is applicable only to devices that have the Eurofins E&E North America (MET Labs) / Eurofins CML certificates:

- Listing number: E212608
- Report number: 105654
- CML 24ATEX3353X & IECEx CML 24.0146X

Inspect the identification label on your device and make sure it contains the MET logo and certificate numbers to ensure that these instructions and classifications apply to your device.

### DANGER!




#### Explosion hazard

Using uncertified equipment in hazardous locations can result in an explosion. An explosion will lead to serious personal injury or death. If the device does not have the specified markings, do not use it in hazardous locations.

## Hazardous location classification

Table 1: Hazardous location classification

ATEX / IECEx	 II 1/2D Ex ia/tb IIIC T93°C...T201°C Da/Db Ta = -30°C to +60°C X
US	Zone 20 AEx ia ta IIIC T93°C Da
CAN	EX ia ta IIIC T93°C Da
US/CAN	Class II, Division 1, Groups E, F and G, Intrinsically Safe Probe
Ambient temperature	-30 °C ... 60 °C (-22 °F ... 140 °F)
Max. process temperature	200 °C (392 °F)

## Specific Conditions of Use / Schedule of Limitations:



**For the device to fulfil the requirements of the certification, you must comply with the following instructions.**

1. Under certain circumstances, exposed non-metallic parts of the equipment may store an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces, and it is the user's responsibility to implement appropriate precautions, in accordance with the relevant technical requirements of EN 60079-14, so that build-up of electrostatic charge is prevented.

In addition, the equipment shall only be cleaned with a damp cloth.

2. The equipment incorporates an IS sensor rod that is connected to earth. The IS sensor rod will not pass a 500 Vrms dielectric strength test and that shall be taken into consideration.
3. The equipment shall be installed in a location that is considered to be a low risk of mechanical danger.
4. The maximum rated process temperature shall be 200°C.
5. All installation hardware, including but not limited to cable glands, conduit fittings, conduits, cables, etc. must comply with the following requirements:
  - Threaded connections must have PG11 thread, IP6X rating, and equivalent or better hazardous location classification than the device.
  - Install all hardware according to the manufacturer's instructions. Additionally, follow all applicable local safety standards and regulations.
  - All installation hardware, including the cables, must have a temperature rating of at least 80 °C (176 °F).
6. Protect the AC and DC inputs and relay connections with external fuses. See Table 2 for details.

Table 2: Specifications for external fuses

Connection	Fuse	Note
AC input	Max. 83 mA	SCCR 1500 A, use fuses compliant with IEC 60127 and UL 248
DC input	Max. 250 mA	SCCR 300 A, use fuses compliant with IEC 60127 and UL 248
Relays 1 and 2	Max. 5 A	Use fuses compliant with IEC 60127 and UL 248

## Opening enclosure

### **DANGER!**



#### **Explosion hazard**

**Opening the device enclosure when the device is energized can result in an explosion. An explosion will lead to serious personal injury or death. De-energize the device before removing the enclosure lid.**

The threaded lid on the enclosure is equipped with a retaining plate that prevents the lid from rotating freely. This prevents accidentally opening the enclosure and exposing the internal electronics. The retaining plate is held in place with a Phillips head M8×8 screw. Before opening the lid, remove the screw using a compatible screwdriver. See Figure 1 for the location of the retaining plate.

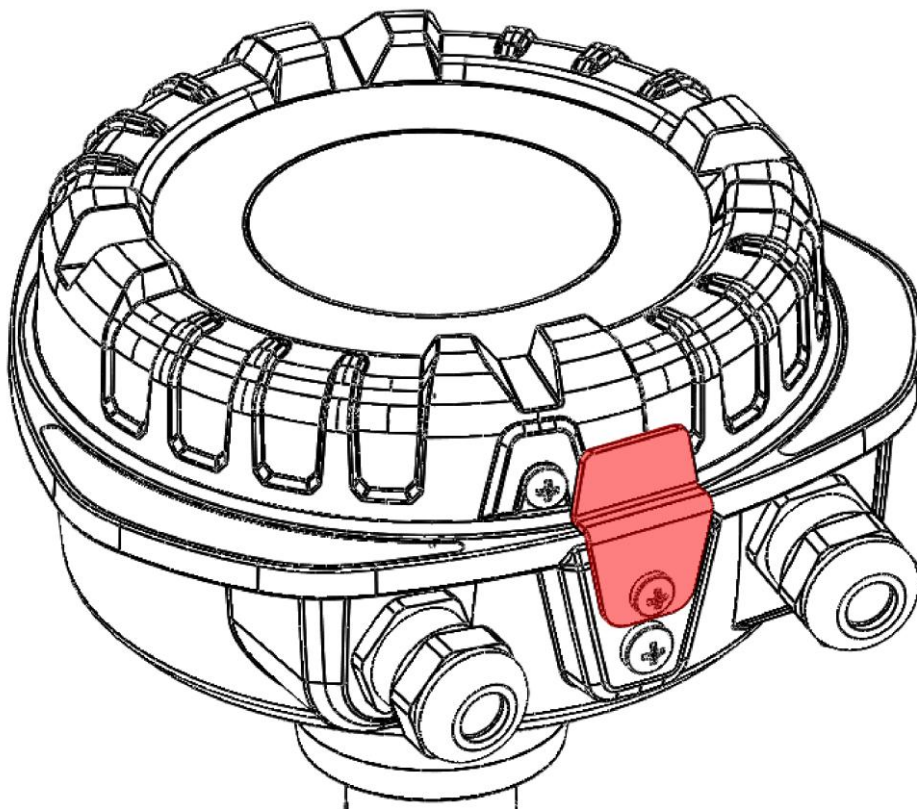


Figure 1: Location of the retaining plate and screw

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Revision history

Revision	Date	Description
3	17.12.2024	Notified Body change from ExVeritas to Eurofins CML – certificate numbers updated
4	15.9.2025	Clarifications to Specific Conditions of Use