

## User manual supplement

# Use in hazardous locations



**This document is intended to supplement the primary user manual for DumoPro dust monitor. Refer to the primary user manual for general information about safety, installation, commissioning, operation and maintenance of your DumoPro dust monitor.**

This user manual supplement provides additional safety instructions and technical specifications for the use of Dumo series ambient dust monitor model DumoPro Ex 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: 107576
- CML 24ATEX3354X / IECEx CML 24.0147X

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

<b>ATEX/IECEX</b>	 II 1D Ex ia ta IIIC T <sub>200</sub> 93°C Da Ta = -30°C to +60°C X
<b>US</b>	Zone 20 AEx ia ta IIIC T93°C Da
<b>CAN</b>	EX ia ta IIIC T93°C Da
<b>US/CAN</b>	Class II, Division 1, Groups E, F and G, Intrinsically Safe Probe, fan and antenna
<b>Ambient temperature</b>	-30 °C ... 60 °C (-22 °F ... 140 °F)

## Preconditions of use



**For the device to fulfil the requirements of the Eurofins / MET Labs certificate, you must comply with the following instructions.**

## Specific Conditions of Use / Schedule of Limitations:

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 IS sensor rod and Fan does not pass a 500Vrms dielectric strength test and is considered connected to earth.
3. External fuses are required at installation. These fuses shall conform to UL 248 (in US) or CSA C22.2 No. 248 (in Canada) series. Required fuse sizes:
  - 500mA max for DC input
  - 1.5A max for Relay Contacts.
4. The installation location shall be considered a low risk of mechanical danger.

### **When using the device in hazardous locations, make sure that the following preconditions are met:**

- The device must not be installed in a location where the external conditions can lead to the build-up of electrostatic charges.
  - Avoid materials that can generate electrostatic charges at the installation location.
  - Make sure that the device is properly connected to a stable ground potential using the internal ground connection. Use a suitable ring or spade connector. Minimum conductor size is 4 mm<sup>2</sup> (AWG 11).
- 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 M16×1.5 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).

- Protect the DC input and relay connections with external fuses. See Table 2 for details.

Table 2: Specifications for external fuses

Connection	Fuse	Note
DC input	Max. 500 mA	Use fuses compliant with IEC 60127 and UL 248
Relays 1 and 2	Max 1.5 A	Use fuses compliant with IEC 60127 and UL 248

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Revision history

Revision	Date	Description
7	17.12.2024	Notified Body change from ExVeritas to Eurofins CML – certificate numbers updated
8	15.9.2025	Clarifications to Specific Conditions of Use