

1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 21ATEX1109X Issue: 1

4 Equipment: Ambient Dust Monitor, Model DumoPro Ex

5 Manufacturer: Sintrol Oy

6 Address: Ruosilantie 15
FI-00390 Helsinki
Finland

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive


9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018 EN 60079-11:2012 EN 60079-31:2014

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 1 D Ex ia ta IIIC T₂₀₀ 93°C Da T_{amb} -30°C to +60°C

Schedule

13 Description of Equipment or Protective System

The Ambient Dust Monitor, Model DumoPro Ex, equipment is intended for use indoors in non-condensing conditions. It is intended for applications where any disruption in normal operation may result in an increase in particle concentration in the workplace causing nuisance and harm to people or machinery. In areas requiring dust extraction systems to lower particulate levels in the environment. All models use identical PCB assembly and sensor probe. RF models are also provided with an external antenna installed on one of the end plates.

Rating:

Power – 24Vdc, 10W

Relay output – 1A @ 30Vdc

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R4381/A/1	2023-05-23	0	Initial issue of the Prime Certificate
R4835/A/1	2023-12-18	1	Added optional polycarbonate window and minor drawing updates.

14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
User Manual	DumoPro	7.0	2023-03-03
*User Manual supplement for Hazardous Locations	SNT_MAN_DUMOPRO_EX_SUPPLEMENT_7_EN_NA-HAZLOC-ATEX_18122023	7	18.11.2023
Parts List	Parts_list_sintrol_dumo_v1.07_20220826	v.1.07	2022.08.26
Schematic	Dumo_v.1.07_20220826_schema	v.1.07	2022.08.26
Gerber Files	Dumo_1.07_20220826	v.1.07	2022.08.26
*DUMOPRO BOM and materials	PC901080-BOM	2	07.11.2023
Body Profile Machining	281001	0.7.4	26.5.2020
Endplate (3 sheets)	281002	0.9.3	26.5.2020
Sensor Tube	22055	0.5	26.5.2020
Parts List	Parts_list_sintrol_dumo_fzener_v1.07_20220320	v.1.07	2022.03.20
Schematic	Dumo_fzener_v1.07_20220320_schema	v.1.07	2022.03.20
Gerber Files	Dumo_v.1.07_fzener_gerberfiles_20220320	v.1.07	2022.03.20
Window (plug) DUMO PRO	MC900272	v.1	23.11.2022
*Window DUMO PRO	OC900064	1	08/05/2023

*Note: An * is included before the title of documents that are new or revised.*

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Schedule

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- The fixed installation shall minimize the risk from electrostatic discharge.
- The IS sensor rod and Fan does not pass a 500Vrms dielectric strength test and is considered connected to earth.
- 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
- The installation location shall be considered a low risk of mechanical danger.

15.2 Conditions for Use (Routine tests)

- None

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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