



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX EXV 21.0087X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2023-05-23)

Status: **Current** Issue No: 1

Date of Issue: 2023-12-18

Applicant: **Sintrol Oy**  
Ruosilantie 15  
FI-00390 Helsinki  
Finland

Equipment: **Ambient Dust Monitor, Model DumoPro Ex**

Optional accessory:

Type of Protection: **Intrinsic safety "i"; Dust ignition protection by enclosure "t"**

Marking: Ex ia ta IIIC T<sub>200</sub> 93°C Da -30°C < Ta < +60°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Sean Clarke CEng MSc FIET**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**ExVeritas Limited**  
Units 16-18 Abenbury Way  
Wrexham Ind. Est.  
Wrexham LL 139UZ  
United Kingdom





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Manufacturer: **Sintrol Oy**  
Ruosilantie 15  
FI-00390 Helsinki  
**Finland**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/EXV/ExTR21.0108/00](#)

[GB/EXV/ExTR23.0096/00](#)

Quality Assessment Report:

[FI/EESF/QAR19.0013/02](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- 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 U.S.) or CSA C22.2 No. 248 (in Canada) series.  
Required fuse sizes:
  - 500 mA maximum for DC input.
  - 1.5 A max. for Relay Contacts.
- The installation location shall be considered a low risk of mechanical danger.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- Added polycarbonate window option with associated drawing updates.
- Other minor drawing updates.

**Annex:**

[IECEX EXV 21.0087X Issue 1 Certificate Annex.pdf](#)

<b>Description Continued:</b>
N/A

<b>Routine Tests:</b>
1. None.

<b>Manufacturer's documents:</b>				
Title:	Drawing No.:	Rev	Sheet s	Date:
User Manual	DUMOPro	7.0	1 to 100	2023-03-03
*User Manual Supplement for Hazardous Locations	SNT_MAN_DUMOPRO_EX_SUPPLEMENT_7_EN_NA-HAZLOC-ATEX_18122023	7	1 to 2	18.12.2023
Parts List	Parts_list_sintrol_dumo_v1.07_20220826	v.1.07	1 to 4	2022.08.26
Schematic	Dumo_v.107_20220826_schema	v.1.07	1 to 11	2022.08.26
Gerber Files	Dumo_1.07_20220826	v.1.07	--	2022.08.26
*DUMOPRO BOM and materials	PC901080-BOM	2	1 to 2	07.11.2023
Body Profile Machining	281001	0.7.4	1 to 1	26.5.2020
Endplate (3 sheets)	281002	0.9.3	1 to 3	26.5.2020
Sensor Tube	22055_	0.5	1 to 1	26.5.2020
Parts List	Parts_list_sintrol_dumo_fzener_v1.07_20220320	v.1.07	1 to 1	2022.03.20
Schematic	Dumo_fzener_v1.07_20220320_schema	v.1.07	1 to 2	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	1 of 1	23.11.2022
*Window DUMO PRO	OC900064	1	1 to 1	08/05/2023

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