



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

Certificate No.: **IECEX EXV 21.0083X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2021-12-17)

Status: **Current** Issue No: 1

Date of Issue: 2023-03-24

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

Equipment: **Dust Concentration Monitors S200 Series, S300 Series**

Optional accessory:

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

Marking: Ex ia/tb IIIC T₂₀₀ 93°C...201°C Da/Db
-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.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



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 60079-26:2014-10](#) Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
Edition:3.0

[IEC 60079-31:2008](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition:1

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/ExTR21.0105/00](#)

[GB/EXV/ExTR23.0001/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Dust Concentration Monitors are intended for use outdoor or indoor primarily in non-condensing conditions inside a duct or pipe. It is intended for application where any disruption in normal operation may result in a variance in particle concentration in the process such as filter leak detection and process measurements.

The devices measure total suspended particles in a conductive duct or pipe, based on a signal generated from moving particles.

All models use identical hardware. Models S203 EX, S304 EX, and S305QAL EX have 4-20mA output active. There are no other differences between models.

Dust Concentration Monitors

S200 Series: Models S201 EX and S203 EX;

S300 Series: Models S303 EX, S304 EX and S305QAL EX

Their electrical ratings are

Power: 80-240 Vac, 50/60 Hz, 10 W; 24 Vdc, 10 W

Relay contacts: 3 A @ 240 Vac; 3 A @ 30 Vdc

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The fixed installation shall minimize the risk from electrostatic discharge.
- The IS sensor rod does not pass a 500Vrms dielectric strength test and is considered connected to earth.
- The installation location shall be considered a low risk of mechanical danger.
- The maximum rated process temperature is 200°C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The plastic window is replaced with a metal plug. All joints around this piece are unchanged.

Standard IEC 60079-26 added.

Annex:

[R4372_A_1 FO-CB-34 - IECEx Certificate Annex.pdf](#)

Description Continued:

N/A

Routine Tests:

1. None.

Manufacturer's documents:

| Title: | Drawing No.: | Rev | Sheets | Date: |
|---|---|--------|---------|-----------------|
| User Manual | S300 EX Series | 2.8 | 1 to 48 | 24th Sept. 2019 |
| User Manual | S200 EX Series | 1.0 | 1 to 39 | 24th Sept. 2019 |
| S200-S300 user manual supplement | User manual supplement Use in hazardous locations | 2 | 1 to 3 | 01/11/2021 |
| Parts List | Parts_list_sintrol_S300_c | V1.08 | 1 to 2 | 22.12.2019 |
| Gerber Files | Sintrol_dust_S300_c | v.1.09 | 1 to 14 | 05.01.2020 |
| Gerber Files | Sintrol_dust_S300 | V1.08 | 1 to 11 | 22.12.2019 |
| DUST_S300_C | 20200626_1 | 1.09 | 1 to 7 | 26.6.2020 |
| Cover Machining | S300+_002 | 0.3 | 1 to 1 | - |
| Enclosure Base Machining | S300+_001 | 0.6 | 1 to 1 | 23.12.2019 |
| S300-S200 parts and materials | S300-S200 parts and materials | - | 1 to 1 | - |
| Label | Sintrol S200 / S300 Series NA HazLoc / ATEX / IECEx product label | - | 1 to 1 | 16.12.2021 |
| *Blind Window S300 / S200 | MC900271 | 0 | 1 to 1 | 23.11.2022 |
| *CLAMP ADAPTER S300/S200 Series S200/S300 Tri-clamp adapter | MC900188-1 | 6 | 1 to 1 | 8.2.2021 |
| *S200 / S300 Ex Da Db Boundaries | 6X40-7X40-001 | 0 | 1 to 1 | 10/03/2023 |

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