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:
Status:	**Current**	Issue No: 3	Issue 2 (2023-11-22) Issue 1 (2023-03-24) Issue 0 (2021-12-17)
Date of Issue:	2024-02-22		
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 T_{200} 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: **Sintrol Oy**
Ruosilantie 15
FI-00390 Helsinki
Finland

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 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 GB/EXV/ExTR23.0091/00
GB/EXV/ExTR23.0116/00

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)
Typographical errors in the table of technical documents were corrected; not related to safety.

Update to the user manual for the S201 S203 models.

Annex:

IECEx EXV 21.0083X Issue 3 Certificate Annex _1.pdf

Description Continued:
N/A

Routine Tests:
1. None.

Manufacturer's documents:				
Title:	Drawing No.:	Rev	Sheets	Date:
*User Manual	SNT MAN S303 S304 6 EN	6	1 to 116	2021-05-03
User Manual	SNT MAN S305 QAL 10 EN	10	1 to 116	16/02/2021
*User Manual	SNT MAN S201 S203 6 EN	6	1 to 86	2023-06-07
*User Manual Supplement	SNT MAN S200 S300 EX SUPPLEMENT 2 EN NA-HAZLOC-ATEX	2	1 to 3	20/10/2021
Parts List	Parts list sintrol S300 c	1.09	1 to 2	20200626
Gerber Files	Dust s300 connections v1.09	1.09	1 to 12	20200626
Parts List	Parts list sintrol S300	1.09	1 to 2	20200626
Gerber Files	Sintrol dust S300	1.09	1 to 11	20200626
Parts List (Monitor C)	Monitor_Dust_C_PCB	1.06	1 to 2	03.01.2020
Gerber Files (Monitor C)	Sintrol_monitor_c_dust	1.06	1 to 13	03.01.2020
Parts List (Monitor)	Monitor_Dust_PCB	1.05	1 to 1	22.12.2019
Gerber Files (Monitor)	Sintrol_monitor_dust	1.05	1 to 13	22.12.2019
*Cover Machining	S300 enclosure cover 09062021	1	1 to 2	09/06/2021
*Enclosure Base Machining	S300+ 001	10	1 to 2	09/03/2021
*S300-S200 parts and Materials	S300-S200 parts and Materials	2	1 to 11	19.9.2023
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
Window, S300 / S200	OC900062	0.5	1 to 1	15/08/2023

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

ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.