1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 21ATEX1104X Issue: 3

4 Equipment: Dust Concentration Monitors

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 1/2 D Ex ia/tb IIIC T_{200} 93°C…201°C Da/Db

T_{amb} -30°C to +60°C

DANAK
PROD Reg.No. 7044
Member of EA MLA

On behalf of ExVeritas

Peter Lauritzen
Managing Director

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Schedule

13 Description of Equipment or Protective System

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

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2532/B/1	17-Dec-2021	0	Initial issue of the Prime Certificate
R4372/A/1	24-Mar-2023	1	Replacement of viewing window. Addition of standard IEC 60079-26.
R4552/A/1	22-Nov-2023	2	Minor drawing edits. Addition of polycarbonate window as an option to viewing window blind plug. Addition of “QAL” calibrated model.
R5002/A/1	22-Feb-2024	3	Typographical errors in the table of compliance drawings were corrected; drawings not changing. Update to user manual for the S201 and S203 models.

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14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	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 5 EN	5	1 to 96	09/03/2021
*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 1	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.*

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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 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.

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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