



EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **CSANe 21ATEX2238** Issue: **0**

Equipment: **Control Monitor VS4000 type SR307A**

Applicant: **ifm electronic gmbh**

Address: Friedrichstrasse 1
45128 Essen
Germany

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

CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 **EN 60079-11:2012**

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:



II (1)G

[Ex ia Ga] IIC

[Ex ia Ga] IIB

Ta = -20°C to +60°C

Signed: J A May

Title: Director of Operations



Project Number 80087492

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR, Netherlands



SCHEDULE

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CSANe 21ATEX2238
Issue 0

13 DESCRIPTION OF EQUIPMENT

The Control Monitor VS4000 type SR307A for flow sensors is an evaluation system which is intended to be used with 4-wire flow sensors and shall be installed outside hazardous areas.

The equipment has a bargraph with 10 LEDs, two buttons for configuration and three relays to indicate switching points of flow rate, temperature and internal failure.

Ambient temperature range: -20 °C to +60 °C

Electrical Data

Supply and output circuit (terminals 31(+) 32(-)):

Un = 24 V, 100 mA, Um = 250 V

Relays (terminals 22, 23, 24, 28, 29, 30, 34, 35, 36):

Switching capacity: 4 A, 250 Vac; 4A, 24 Vdc; Um = 250 V

Sensor circuit terminals (2, 7, 8, 9):

in type of protection intrinsic safety Ex ia IIC or IIB, with the following maximum values:

U_o = 9.6 V; I_o = 332 mA; P_o = 531 mW; C_o = 3.15 µF (IIC), 25.55 µF (IIB); L_o = 0.3 mH (IIC), 1.2 mH (IIB)

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated CSA Group Reports and Certificate History

Issue	Date	Report number	Comment
0	05 April 2022	R80087492A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.



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17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.



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Certificate Annexe



Certificate Number: CSANe 21ATEX2238

Equipment: Control Monitor VS4000 type SR307A

Applicant: ifm electronic gmbh

Issue 0

Drawing	Sheets	Rev.	Drawing date	Date (Stamp)	Title
-	1 to 16	02	08 Aug 2019	04-Apr-22	Documents for ATEX control monitor SR307A
-	1 to 5	01	26 Aug 2011	04-Apr-22	Documents for ATEX control monitor SR307A Mechanical design
10211340	1 to 3	00	2011-06-20	04-Apr-22	SLP_SR-ELEKTR/ATEX/K/1
10211341	1 to 3	00	2011-06-27	04-Apr-22	LPT_SR-ELEKTR/ATEX/K/1
10211337	1 to 9	00	2011-06-27	04-Apr-22	LAY_SR-ELEKTR/ATEX/K/1
10211339	1 to 2	00	2011-06-27	04-Apr-22	LPB_SR-ELEKTR/ATEX/K/1
-	1 to 23	-	-	04-Apr-22	PARTSLIST
10221265	1 of 1	01	2012-01-12	04-Apr-22	FOL SR307A
M100506	1 to 2	-	2010-05-12	04-Apr-22	EF16-Sperrwandler Ex
10202917	1 to 2	00	2011-03-08	04-Apr-22	Kontur LP SR307A 97,0X95,2
1436072	1 of 1	00	2022-01-24	04-Apr-22	Marking SR307A
80283005	1 to 17	00	03/2022	04-Apr-22	Operating instructions switching amplifier



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