



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 CSA 21.0044	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2022-04-05		
Applicant:	ifm electronic GmbH Friedrichstraße 1 45128 Essen Germany		
Equipment:	Control Monitor VS4000 SR307A		
Optional accessory:			
Type of Protection:	Intrinsically Safe		
Marking:	[Ex ia Ga] IIC [Ex ia Ga] IIB Ta = -20°C to +60°C		

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations, Toronto

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:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturer: **ifm electronic GmbH**
Friedrichstraße 1
45128 Essen
Germany

Manufacturing
locations: **ifm electronic GmbH**
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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

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 Report:

[CA/CSA/ExTR22.0012/00](#)

Quality Assessment Report:

[DE/BVS/QAR06.0010/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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(-)):

$U_n = 24\text{ V}$, 100 mA , $U_m = 250\text{ V}$

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

Switching capacity: 4 A , 250 Vac ; 4 A , 24 Vdc ; $U_m = 250\text{ V}$

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

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

$U_o = 9.6\text{ V}$; $I_o = 332\text{ mA}$; $P_o = 531\text{ mW}$; $C_o = 3.15\text{ }\mu\text{F}$ (IIC), $25.55\text{ }\mu\text{F}$ (IIB); $L_o = 0.3\text{ mH}$ (IIC), 1.2 mH (IIB)

SPECIFIC CONDITIONS OF USE: NO