

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 20.0014X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 2	Issue 1 (2022-05-24) Issue 0 (2020-10-22)
Date of Issue:	2023-11-09		
Applicant:	MSA - The Safety Company 1000 Cranberry Woods Dr Cranberry Township, PA 16066-5296 United States of America		
Equipment:	HART Port 5000		
Optional accessory:			
Type of Protection:	Intrinsically Safe, Flameproof and Du	ist Ignition Protection by Enclosure	
Marking:	Ex db [ia Ga] IIC T5 Gb Ex tb [ia Da] IIIC T100°C Db		
	IP66		
Approved for issue c Certification Body:	on behalf of the IECEx	Dave Magee	
Position:		Senior Director of Operations, Toront	0
Signature: (for printed version)			
Date:			
(for printed version)			_
2. This certificate is no	schedule may only be reproduced in full. t transferable and remains the property of the issui enticity of this certificate may be verified by visiting	ing body. g www.iecex.com or use of this QR Code.	
Certificate issued	d by:		0004
CSA Group 178 Rexdale Bo	ulevard		CSA GROUP™
Toronto, Ontari			GROUP

IECEx Certificate of Conformity Certificate No.: IECEx CSA 20.0014X Page 2 of 4 Date of issue: 2023-11-09 Manufacturer: MSA - The Safety Company 1000 Cranberry Woods Dr

	United States of America		
Manufacturing locations:	MSA - The Safety Company 1000 Cranberry Woods Dr Cranberry Township, PA 16066-5296 United States of America	General Monitors (Ireland) Limited Ballybrit Business Park Galway Ireland	General Monitors, Inc. 16782 Von Karman Ave. Unit 14 Irvine CA 92606 United States of America

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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
	This Certificate does not indicate compliance with safety and performance requirements

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:

CA/CSA/ExTR20.0027/00	CA/CSA/ExTR20.0027/01	
Quality Assessment Reports:		
FR/INE/QAR08.0011/13	GB/CML/QAR22.0009/00	

Cranberry Township, PA 16066-5296

US/UL/QAR10.0004/10



IECEx Certificate of Conformity

Certificate No.: **IECEx CSA 20.0014X**

2023-11-09

Date of issue:

Page 3 of 4

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The HART Port 5000 is an 8 - 30 VDC Class 2 or SELV powered, completely potted associated apparatus contained within a flameproof stainless-steel enclosure intended to be installed in a Zone 1 or Zone 21 area providing controlled Intrinsically Safe (IS) output. The enclosure is approximately 56 mm diameter by 116 mm high, including the threaded neck extension. The two-pin HART keyed external connector is located at one end of the HART Port 5000. The completely potted circuitry section is covered by a cemented joint that provides the enclosure seal at the other end of the HART Port 5000.

The entire internal volume is completely potted including the terminals for the HART connector portion. The minimum enclosure thickness is 2.11mm and the minimum cement joint distance is 28.47mm. Two wires extend from the internal intrinsic safety barrier through the completely potted threaded neck extension for the 4-20 mA HART communications output signal. The HART Port 5000 delivers an Intrinsically Safe (IS) output per the following entity parameters:

Maximum Voltage Um = 250 V

Uo = 6.14Vlo = 170mA Po = 260mW Co = 34uFLo = 1.3mH

Ambient Temperature: -40 °C to +60 °C; Enclosure Rating: IP66.

Output

SPECIFIC CONDITIONS OF USE: YES as shown below:

The Manufacturer shall comply with the following:

- 1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignitioncapable level of electrostatic charge. Therefore, the equipment shall only be cleaned with a damp cloth.
- The flameproof joints shall not be repaired.
- The HART Port 5000 is provided with 3/4"-14 NPT threads and shall only be connected to a suitably certified enclosure. The installation to 3. the certified enclosure shall be with five fully engaged threads, tightened wrench-tight.
- The HART Port 5000 shall only be fitted to enclosures having a maximum reference pressure of 34.4 bars. 4
- The HART Port 5000 shall be connected directly to a suitably certified junction box or instrument for the hazardous area of installation and thereby provide Ex protection for the flying lead connections.
- The manufacturer is responsible for and shall include in the instruction manual the minimum details of all applicable instructional information required for the equipment by clause 30 of EN/ IEC 60079-0 - i.e., the certificates.
- The Ingress Protection rating is exclusively based upon the installation instruction for orientation specified in the operating manual. 7
- The external bonding of the metallic enclosure may be achieved using the external bonding connection facility and/or threaded entry as part of the installation.



Date of issue:

IECEx Certificate of Conformity

Certificate No.: IECEx CSA 20.0014X

Page 4 of 4

2023-11-09

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) This issue, Issue 2, recognises the following change;

1. The QAR was updated, no ExTR was required