

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 CML 21.0155X	Page 1 o	f 3 <u>Cer</u>	tificate history:
Status:	Current	Issue No	: 0	
Date of Issue:	2021-12-13			
Applicant:	Endress+Hauser Optical Analysis Inc 11027 Arrow Route Rancho Cucamonga CA 91730 United States of America			
Equipment:	TDL Gas Analyser Model: SS2100i-1			
Optional accessory	r.			
Type of Protection:	Flameproof Ex "db"			
Marking:	Ex db IIB+H ₂ T4 Gb			
	$T_a = -20^{\circ}C$ to $+60^{\circ}C$			
Approved for issue on behalf of the IECEx S. Roumbedakis Certification Body:		S. Roumbedakis		
		Technical Manager		
Signature: Daubedate				
(for printed version)		of autors carry		
Date:		2021-12-13		
2. This certificate is n	l schedule may only be reproduced in full. ot transferable and remains the property of the issuing bo	ody.	I	
3. The Status and au	thenticity of this certificate may be verified by visiting www	w.iecex.com or use of this QR Code.		
Certificate issue	ed by:			
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Ellesmere Port United Kingdo	t, CH65 4LZ			



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Issue No: 0

Certificate No.:IECEx CML 21.0155XDate of issue:2021-12-13Manufacturer:Endress+Hauser Optical Analysis Inc
11027 Arrow Route
Rancho Cucamonga CA 91730

United States of America

Additional manufacturing locations:

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:7.0

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:

GB/CML/ExTR21.0279/00

Quality Assessment Report:

GB/CML/QAR21.0014/01



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Certificate No .: **IECEx CML 21.0155X** Page 3 of 3

Date of issue:

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2021-12-13

The gas analyzer SS2100i-1 consists of one Ex-component certified flameproof enclosure. This enclosure contains on the front all the electronic parts (power supply, controller, keypad...) and on the back, are located the measurement cell and a regulated heater, which ensures a stable temperature inside the enclosure.

Refer to Certificate Annex for full Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below: Refer to Certificate Annex for Specific Condition of Use.

Annex:

Certificate Annex IECEx CML 21.0155X Iss 0_1.pdf





Annexe to:	IECEx CML 21.0155X Issue 0
Applicant:	Endress+Hauser Optical Analysis Inc.
Apparatus:	TDL Gas Analyser Model: SS2100i-1

CML

Description

The gas analyzer SS2100i-1 consists of one Ex-component certified flameproof enclosure. This enclosure contains on the front all the electronic parts (power supply, controller, keypad...) and on the back, are located the measurement cell and a regulated heater, which ensures a stable temperature inside the enclosure. The front and the back of the enclosure are separated by a plate which is perforated in order not to create two sub-compartments.

The entries into the enclosure can be equipped with certified accessories (such as blanking element, breather/drain, reducer) according to the intended use of the product.

Notes:

- IECEx Cert No. IECEx LCI 11.0057X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by IECEx Cert No. IECEx LCI 11.0057X Iss. 7.
- Where IECEx Cert No. IECEx LCI 11.0057X Iss. 7, is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

Component	Certificate Numbers	Standards Applied	Differences
Enclosure Type	IECEx INE 13.0079U IEC 60079-0:2017 Ed 7 IEC 60079-1:2014 Ed 7	IEC 60079-0:2017 Ed 7	No applicable
EJB 63AS 10111003		technical differences	
EJB 63AS 10111002			
Flames Arrestor	IECEx INE 12.0002U	IEC 60079-0:2017 Ed 7	No applicable technical differences
Type FT/VS 61090		IEC 60079-1:2014 Ed 7	

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Conditions of Manufacture

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. According to Annex G of standard IEC 60079-1, each containment system shall be submitted to an overpressure test (carried out in accordance with clause G.4.1).

Specific Conditions of Use

The following conditions relate to the safe installation and/or use of the products:

- i. The specific conditions of use of each certified element come under the corresponding certificate of conformity.
- ii. Entries shall be equipped with accessories such as blanking element, breather/drain or reducer certified for the intended use and in accordance with manufacturer's instructions.
- iii. The screws used for the assembly of the various parts of flameproof enclosures must have a yield stress higher or equal to 450 MPa.
- iv. The flameproof joints are not intended to be repaired. If needed, contact the manufacturer.
- v. The equipment shall be installed in such a way that the hazard of mechanical impact on the window of the electronics enclosure to be low.

Components covered by Ex Certificates issued to older editions of Standards

Refer to Product Description.