

# 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 21.0154X	Page 1 o	f 3 <u>Ce</u>	rtificate 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-2			
Optional accessory:				
Type of Protection:	Flameproof Ex "db"			
Marking:	Ex db IIB+H <sub>2</sub> T4 Gb			
	T <sub>a</sub> = -20°C to +60°C			
Approved for issue of Certification Body:	on behalf of the IECEx	S. Roumbedakis		
Position:		Technical Manager		
Signature:		Rambedath		
(for printed version) Date:		2021-12-13		
Date.				E MARKEN STEL
	schedule may only be reproduced in full.			
	t transferable and remains the property of the issuing be ienticity of this certificate may be verified by visiting www			
Certificate issued				
Eurofins E&E C Unit 1, Newport			🔅 eurofins	cml
New Port Road Ellesmere Port,			- Caronna	
United Kingdom				



# IECEx Certificate of Conformity

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Certificate No.:	IECEx CML 21.0154X
Date of issue:	2021-12-13
Manufacturer:	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/ExTR21.0278/00

Quality Assessment Report:

GB/CML/QAR21.0014/01



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#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2021-12-13

The product is made of two Ex-component certified flameproof stainless enclosures. One of these enclosures contains the electronic equipment, and the other one contains the gas analyzer itself.

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 21.0154X Iss 0\_1.pdf





Annexe to:	IECEx CML 21.0154X Issue 0
Applicant:	Endress+Hauser Optical Analysis Inc.
Apparatus:	TDL Gas Analyser Model: SS2100i-2

CML

## Description

The product is made of two Ex-component certified flameproof stainless enclosures. One of these enclosures contains the electronic equipment: power supply, regulation, automatics. The other one contains the gas analyzer itself and a regulated heater to maintain the temperature inside the enclosure at a stable predetermined level. The volumes of the two enclosures are totally independent.

The entries into the enclosure can be equipped with one off certified accessories (such as blanking element, breather/drain, reducer) according to the intended use of the product. The two flameproof enclosures can be connected together with equipment certified barrier type cable gland.

### Notes:

- IECEx Cert No. IECEx LCI 11.0007X, 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 11.0007X Iss. 7.
- Where IECEx Cert No. IECEx LCI 11.0007X 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	INERIS 13ATEX9022U	EN IEC 60079-0:2018	No applicable	
EJB 63AS 10111003		EN 60079-1:2014	technical differences	
EJB 63AS 10111002	IECEx INE 13.0079U	IEC 60079-0:2017 Ed 7		
		IEC 60079-1:2014 Ed 7		
Flames Arrestor	INERIS 12ATEX9013U	EN IEC 60079-0:2018	No applicable technical differences	
Type FT/VS 61090		EN 60079-1:2014		
	IECEx INE 12.0002U	IEC 60079-0:2017 Ed 7		
		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 be low.

### Components covered by Ex Certificates issued to older editions of Standards

Refer to Product Description.