



# 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](http://www.iecex.com)

Certificate No.: **IECEX CML 21.0155X** Page 1 of 3 [Certificate 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:  
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 on behalf of the IECEx  
Certification Body:

**S. Roubedakis**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:

**2021-12-13**

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**Eurofins E&E CML Limited**  
**Unit 1, Newport Business Park**  
**New Port Road**  
**Ellesmere Port, CH65 4LZ**  
**United Kingdom**





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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/ExTR21.0279/00](#)

Quality Assessment Report:

[GB/CML/QAR21.0014/01](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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

**Description**

The SS2100i-1 is a portable, battery-powered, multi-gas analyser. It consists of a power supply, controller, keypad and display. The analyser is designed for use in hazardous areas and is certified to IECEx standards. It is used for the detection and measurement of various gases in industrial environments.

The analyser is equipped with a range of sensors and is capable of measuring a wide range of gases. It is also equipped with a range of safety features to ensure safe operation in hazardous areas.

**Notes:**

- The analyser is certified to IECEx standards for use in hazardous areas.
- The analyser is equipped with a range of sensors and is capable of measuring a wide range of gases.
- The analyser is also equipped with a range of safety features to ensure safe operation in hazardous areas.

Component	Certificate Numbers	Standards Applied	Differences
Power supply	13000000	IEC 60080-0:2011 IEC 60080-1:2011	None
Controller	12000200	IEC 60080-0:2011 IEC 60080-1:2011	None

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