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 23.0122X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2023-11-14		
Applicant:	**Analytical Industries, Inc.** 2855 Metropolitan Place Pomona, CA 91767 **United States of America**		
Equipment:	**Oxygen Analyser Type GPR 18 MS, GPR 18 and GPR 28**		
Optional accessory:			
Type of Protection:	**Flameproof Ex "db"**		
Marking:	Ex db IIB/IIB+H2 T6 Gb		

Approved for issue on behalf of the IECEx Certification Body: **L A Brisk**

Position: **Assistant Certification Manager**

Signature: (for printed version)

Date: (for printed version) 14 Nov 2023

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:

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

IECEx Certificate of Conformity

Certificate No.: **IECEx CML 23.0122X**

Date of issue: 2023-11-14 Issue No: 0

Manufacturer: **Analytical Industries, Inc.**
2855 Metropolitan Place
Pomona, CA 91767
United States of America

Manufacturing locations: **Analytical Industries, Inc.**
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Pomona, CA 91767
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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 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/ExTR23.0174/00

Quality Assessment Report:

GB/CML/QAR23.0005/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The oxygen analyzer is a flameproof enclosure containing electrical and electronical devices intended for oxygen analysis.

See Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
See Annex for Specific Conditions of Use.

Annex:

IECEx CML 23.0122X Iss. 0 Certificate Annex.pdf

Annexe to:	IECEx CML 23.0122X Issue 0
Applicant:	Analytical Industries Inc.
Apparatus:	Oxygen Analyzer Type GPR 18 MS, GPR 18 and GPR 28

Description

The oxygen analyzer is a flameproof enclosure containing electrical and electronical devices intended for oxygen analysis.

The containment system which carries the gas inside the enclosure is composed of a flow limiter at the inlet, and two certified flame arrestors at the gas inlet and outlet. In addition to this, the enclosure wall is fitted with a breather. The containment system is made up of a series of pipes and pipe fittings which pass the gas through an oxygen analyzer. The oxygen through the containment system is always <21%.

The enclosure is fitted with 2 cables entries 3/4" NPT and a glass window. A thermal probe can be used only if a heater is installed inside the enclosure, with a threshold fixed to +65°C.

Notes:

- INERIS 07ATEX0025X / IECEx INE 19.0054X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by INERIS 07ATEX0025X / IECEx INE 19.0054X.
- Where INERIS 07ATEX0025X / IECEx INE 19.0054X 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.

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

ii. The containment system shall be routine tested at 1.5 x its maximum operating pressure in accordance with EN/IEC 60079-1 Ed 7.0, clause G.4.1.

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Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

i. The enclosure shall be installed to a flat rigid surface using the mounting means provided.
ii. All unused openings must be fitted with certified flameproof blanking elements and have a minimum marking equal to the marking on the enclosure.
iii. When installing cable glands, they must be certified as flameproof and have a minimum marking equal to the marking on the enclosure.
iv. The end user shall provide the earthing/bonding means as necessary.
v. The flanged joint of the enclosure has following parameters: width: 24.7 mm, gap less than 0.0635 mm.
vi. The flameproof joints of the flame arrestors and of the breathing device are not intended to be repaired.
vii. The containment system shall not have an internal source of release of oxygen in concentrations greater than that found in normal air, or other oxidizers.