



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 ITS 19.0013X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2019-05-30)

Status: **Current** Issue No: 1

Date of Issue: 2020-07-01

Applicant: **Teledyne Instruments Inc.**
16830 Chestnut Street City of Industry, CA 91748
United States of America
United States of America

Equipment: **Series of Analysers Models 2020, 3020M, 3020P, 3020T, 3020UV, 7320**

Optional accessory:

Type of Protection: **Flameproof (Ex db)**

Marking: Ex db IIB+H2 T6..T5 Gb
IECEX ITS 19.0013X

Approved for issue on behalf of the IECEx
Certification Body:

P Moss

Position:

Certification Officer

Signature:
(for printed version)

Date:

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:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom



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Manufacturer: **Teledyne Instruments Inc.**
16830 Chestnut Street City of Industry, CA 91748
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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 Reports:

[US/ETL/ExTR19.0025/00](#)

[US/ETL/ExTR19.0025/01](#)

Quality Assessment Report:

[GB/BAS/QAR12.0008/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The following models are included under this evaluation.

- Model 2020 – Thermal Conductivity Analyzers
- Model 3020M – Oxygen Analyzers
- Model 3020P – Oxygen Analyzers
- Model 3020T – Oxygen Analyzers
- Model 3020UV – Oxygen Analyzers
- Model 7320 – IR Absorption Analyzers

Equipment is a series of analysers housed within a component certified explosion proof enclosure IECEx INE 13.0070X. Analysers are suitable for use in oxygen concentrations up to 20.9% in a variety of hazardous and non-hazardous atmospheres compliant with Gas Group IIB+H2.

There are three separate pressurized lines into the equipment which allow for sample, zero cal, and span gases and a single output line which shall be vented to atmospheric pressure; only one line is able to be operated at any given time. The enclosure is configured for limited release. Additionally, there is a window integral to the component enclosure which allows for viewing the concentration readings from the analyser.

All user electrical connections are via ¾" or 1" NPT female threaded ports.

When used with Killark Flame Arrestor (KB1FA25SS6) IECEx CSA 10.0007U rating will be T5. All other models are rated for T6.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- All cable glands, blanking elements and thread adapters used with the equipment shall be certified Ex db parts. These parts shall have a suitable temperature range for the final installation and maintain a degree of protection of IP66 in accordance with IEC 60529.
- Equipment with windows and pilot light type EFL*PC* shall be installed in locations where the risk of impact is considered negligible.
- Flameproof joints are not intended to be repaired.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updated drawings. (D95617, A95032, A95143, A95144, A95145, A95146, A95147, D94854, B94943)
- Added alternate certified enclosure.

Annex:

[Annex for IECEx ITS 19.0013X issue 1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 19.0013X	Issue No. 1
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
*XX20 Family Detail ATEX / IECEx	D94854	3	4/29/20
EJB 51 DRILLING DETAIL	D94822	0	7/30/18
*EJB 51X DRILLING DETAIL	D95617	0	5/05/20
*FAB DETAIL ATEX LABEL XX20 SERIES	B-94943	3	5/21/20
*2020 ATEX / IECEx ADDENDUM	A-95143	3	5/05/20
*3020M ATEX / IECEx ADDENDUM	A-95032	5	5/05/20
*3020P ATEX / IECEx ADDENDUM	A-95145	3	5/05/20
*3020T ATEX / IECEx ADDENDUM	A-95144	3	5/05/20
*3020UV ATEX / IECEx ADDENDUM	A-95146	3	5/05/20
*7320 3020UV ATEX / IECEx ADDENDUM	A-95147	3	5/05/20

Note: An * is included before the title of documents that are new or revised.