

EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- EU-Type Examination Certificate Number:** ITS19ATEX104845X **Issue 00**
- Product:** Series of Analysers, Models 2020, 3020M, 3020P, 3020T, 3020UV, 7320
- Manufacturer:** Teledyne Instruments Inc.
- Address:** 16830 Chestnut Street City of Industry, CA 91748, USA
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-28:2015 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:



Models 2020, 3020M, 3020P, 3020T, 3020UV, 7320
II 2 G Ex db IIB+H₂ T6..T5 Gb
0°C ≤ Ta ≤ 50°C

Certification Officer: _____ **Date:** 15 May 2019
P Moss

SCHEDULE:

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11. Description of Equipment or Protective System

The following models are included under this evaluation.

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

Equipment is a series of analysers housed within a component certified explosion proof enclosure. 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), T-code rating will be T5. All other models are rated for T6.

12. Report Number

Intertek Report: 103539446DAL-002 Issue: 00 Dated: 15 May 2019.

13. Special Conditions of Certification

(a). Special Conditions of Use

- *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.*

(b). Conditions of Manufacture - Routine Tests

None

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103539446DAL-001 Issue: 00 Dated: 15 May 2019.

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15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
XX20 Family Detail ATEX / IECEX	D94854	2	5/13/19
EJB 51 DRILLING DETAIL	D94822	0	7/30/18
FAB DETAIL ATEX LABEL XX20 SERIES	B-94943	2	5/13/19
2020 ATEX / IECEX ADDENDUM	A-95143	2	5/13/19
3020M ATEX / IECEX ADDENDUM	A-95032	4	5/13/19
3020P ATEX / IECEX ADDENDUM	A-95145	2	5/13/19
3020T ATEX / IECEX ADDENDUM	A-95144	2	5/13/19
3020UV ATEX / IECEX ADDENDUM	A-95146	2	5/13/19
7320 3020UV ATEX / IECEX ADDENDUM	A-95147	2	5/13/19

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