intertek
Total Quality. Assured.

EU-TYPE EXAMINATION
CERTIFICATE

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

1. **EU-Type Examination Certificate Number:** **ITS16ATEX18456X** **Issue 01**
2. **Product:** 6650SP Oil In Water Analyzer Explosion Proof
   6020 UV Analyzer
3. **Manufacturer:** Teledyne Analytical Instruments Inc
4. **Address:** 16830 Chestnut St, City of Industry, CA 91748, United States
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. 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.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-28: 2015 except in respect of those requirements referred to within item 14 of the Schedule.
8. 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.
9. 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.
10. The marking of the product shall include the following:

Model 6650SP
II 2 G Ex db IIB+H2 T6 Gb -20°C ≤ Ta ≤ +60°C

Ex

Model 6020
II 2 G Ex db op pr IIB+H2 T4 Gb -20°C ≤ Ta ≤ +60°C

Certification Officer: Vijay K. Varma **Date:** 15 May 2019

V K Varma

SCHEDULE:

EU-Type Examination Certificate Number: ITS16ATEX18456X Issue 01

11. Description of Equipment or Protective System

The Oil In Water Analyzer Explosion Proof comprises of a component approved FEAM flameproof enclosure EJB, INERIS 13ATEX9019U measuring approximately 414.48 (H) x 315.00 (W) x 281.93 (D) and two FEAM Switches (Operators) INERIS13ATEX9017U.

The UV Analyzer comprises of the same component approved FEAM flameproof enclosure EJB, INERIS 13ATEX9019U measuring approximately 414.48 (H) x 315.00 (W) x 281.93 (D) and two FEAM Switches (Operators) INERIS13ATEX9017U and a connector to permit the entry of fibre optic into the Flameproof enclosure covered by Certificate number BASEEFA07ATEX0243X.

The enclosures utilize a range of electrical equipment that is fitted in accordance with the enclosure's conditions of use.

12. Report Number

Intertek Report: G103744349CHE-001 Dated: 26th April 2019.

13. Special Conditions of Certification

(a). Special Conditions of Use

- Due to window, the unit shall only be in an area of low impact risk.
- Suitably certified Ex d IIB+H2 Gb cable glands, thread adapters and blanking elements must be utilized.
- The UV Analyser system Model 6020 must use the specified optic entry device, with armored cable or conduit to protect the fibre optic cable. In addition, the optical output must always be terminated within a suitably certified enclosure or in the non-hazardous area. And
- The Connector protective caps shall be fitted immediately following separation

(b). Conditions of Manufacture - Routine Tests

- The integral optic cables shall have 0.5mm radial insulation and be mechanically protected against pulling, twisting and abrasion.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: G103744349CHE-001 Dated: 26th April 2019.

SCHEDULE:

EU-Type Examination Certificate Number: ITS16ATEX18456X Issue 01

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
OUTLINE DIAGRAM OIW ANALYZER MODEL 6650SP-XD ATEX CONTROL UNIT 1TO 4	D- 93493	0	03/24/16
*FABRICATION DETAIL ATEX LABEL MODEL 66507SP-XD	A-93507	1	03/21/19
*OUTLINE DIAGRAM COLOUR ANALYZER MODEL 6020 (1 TO 3 SHEETS)	D-95036	1	03/21/19
*FABRICATION DETAIL ATEX LABEL MODEL 6020-UV	A-94984	3	03/21/19

*Denotes drawing changes or new drawings

16. Details of Certificate changes

Issue/Supplement	Date	Details of changes to ITS16ATEX18456X
Issue 0	19 April 2016	Original Issue. Intertek Report 102452075CHE-001 dated March 2016
Issue 1	11 March 2019	The addition of component approved optic fibre entry device through the enclosure wall and new model "UV Analyser system Model 6020" to distinguish the change between analysers.

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ITS 16.0029X

Issue No: 1

Certificate history:
Issue No. 1 (2019-05-16)
Issue No. 0 (2016-04-29)

Status: **Current**

Date of Issue: **2019-05-16**

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

Equipment: **Process Analyser System model 6650SP-XD and UV Analyser system Model 6020.**

Optional accessory:

Type of Protection: **Ex db IIB+H2 T6 Gb or Ex db op pr IIB+H2 T4 Gb**

Marking:

IECEx ITS 16.0029X

Model 6650SP
Ex db IIB+H2 T6 Gb -20°C ≤ Ta ≤ +60°C

Model 6020
Ex db op pr IIB+H2 T4 Gb -20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx Certification Body: V K Varma

Position: Certification Officer

Signature: (for printed version)

Date: 2019-05-16

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 the Official IECEx Website.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No:	IECEx ITS 16.0029X	Issue No: 1
Date of Issue:	**2019-05-16**	Page 2 of 4
Manufacturer:	**Teledyne Instruments** 16830 Chestnut Street, City of Industry, California 91748. **United States of America**	

Additional Manufacturing location(s):

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 apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical 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/ITS/ExTR16.0032/00 GB/ITS/ExTR16.0032/01

Quality Assessment Report:

GB/BAS/QAR12.0008/05

IECEx Certificate of Conformity

Certificate No:	IECEx ITS 16.0029X	Issue No: 1
Date of Issue:	**2019-05-16**	Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Oil In Water Analyzer Explosion Proof comprises of a component approved FEAM flameproof enclosure EJB, IECEX INE 13.0083U measuring approximately 414.48 (H) x 315.00 (W) x 281.93 (D) and two FEAM Switches (Operators) IECEx INE 13.0073U.

The UV Analyzer comprises of the same component approved FEAM flameproof enclosure EJB, IECEX INE 13.0083U measuring approximately 414.48 (H) x 315.00 (W) x 281.93 (D) and two FEAM Switches (Operators) IECEX INE 13.0073U and a connector to permit the entry of fibre optic into the Flameproof enclosure covered by Certificate number IECEx BAS 07.0089X.

The enclosures utilize a range of electrical equipment that is fitted in accordance with the enclosure's conditions of use

SPECIFIC CONDITIONS OF USE: YES as shown below:

Following CONDITIONS OF CERTIFICATION apply:

- Due to window, the unit shall only be in an area of low impact risk.
- Suitably certified Ex d IIB+H2 Gb cable glands, thread adapters and blanking elements must be utilized.
- The UV Analyser system Model 6020 must use the specified optic entry device, with armored cable or conduit to protect the fibre optic cable. In addition, the optical output must always be terminated within a suitably certified enclosure or in the non-hazardous area.
- The connector protective caps shall be fitted immediately following separation
- The integral Optic cables shall have 0.5mm radial insulation and be mechanically protected against pulling, twisting and abrasion.

IECEx Certificate of Conformity

Certificate No:	IECEx ITS 16.0029X	Issue No: 1
Date of Issue:	**2019-05-16**	Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

Issue 1

The addition of optic fibre through the enclosure wall and new model "UV Analyser system Model 6020" to distinguish the change between analysers.

Annex:

IECEx ITS 16.0029X Annex 1.pdf

IECEx Certificate of Conformity

Certificate No:	IECEx ITS 16.0029X	Issue No. 1
Annex No. 1		

Manufacturer's documents			
Title:	Drawing No.:	Rev. Level:	Date:
OUTLINE DIAGRAM OIW ANALYZER MODEL 6650SP-XD ATEX CONTROL UNIT 1TO 4	D- 93493	0	03/24/16
FABRICATION DETAIL ATEX LABEL MODEL 66507SP-XD	A-93507	0	03/29/16
*OUTLINE DIAGRAM COLOUR ANALYZER MODEL 6020 (1 TO 3 SHEETS)	D-95036	2	5/3/19
*FABRICATION DETAIL ATEX LABEL MODEL 6020-UV	A-94984	5	5/03/19

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

Certificate issued by:

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

intertek
Total Quality. Assured.