



# 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 ITS 14.0065X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2015-06-11

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

Equipment: **Model 4000 Series – Purge Analyser**

Optional accessory:

Type of Protection: **Ex p**

Marking: Ex pxb IIC T\* Gb  
IECEX ITS 14.0065X  
\*See equipment description for T-Class details

Approved for issue on behalf of the IECEx  
Certification Body:

**D G Bosson**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:

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

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





# IECEX Certificate of Conformity

Certificate No.: **IECEX ITS 14.0065X**

Page 2 of 3

Date of issue: 2015-06-11

Issue No: 0

Manufacturer: **Teledyne Analytical Instruments Inc.**  
16830 Chestnut Street  
City of Industry  
California 91748.  
USA  
**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 60079-2:2014-07** Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"  
Edition:6

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/ITS/ExTR15.0026/00](#)

Quality Assessment Report:

[GB/BAS/QAR12.0008/01](#)



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Page 3 of 3

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Equipment performs Hydrocarbon Analysis in gases and liquids utilizing Flame Ionization Detection technology. The purged enclosure is constructed from cold rolled steel or 316 stainless steel and is approximately 36"x30"x36". The enclosure incorporates a Ex e certified window which is 13"x8". Purge is controlled with the Pepperl+ Fuchs Purge system (IECEX UL 08.0003x) and can be supplied with either Air when in continuous dilution mode or Nitrogen when utilizing leakage compensation. The temperature classification of the purged enclosure as covered in scope of this certification is T4. For clarity, the equipment can also be marked as T3 to reflect the use of certified equipment installed externally from the purge enclosure, which fall out of the scope of this certificate. Models covered by this certification are:

- 4080/4020
- 4080/4030
- 4080/4040
- 4080/4060
- 4020B
- 4030B
- 4040B
- 4060B

The enclosure has the following purge parameters. Minimum Purge Flow Rate 140SLPM N2 or Air

Minimum Purge Duration 13 minutes

Enclosure min. overpressure 1.2 mbar

Enclosure max. overpressure 13 mbar

Supply min overpressure 3 bar

Supply max overpressure 5 bar

Maximum leakage rate 25%

Category of internal release

Limited Maximum release flow rate H2 380 SCCM @ 2bar CH4 1.5 SLPM @ 2 bar

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The end user must supply a flow restriction device that limits the flow to the containment system as follows: i. H2 to 380 SCCM at 2 BarG max ii. CH4 to 1.5 SLPM at 2 BarG max
- Temperatures at the cable entry point could exceed 70°C and 80°C at the branching point. Selection of cable must be appropriate for the ambient temperature range.
- Refer to drawing number D91840 for correct replacement of cable entries.
- The manufacturers operating and maintenance instructions shall always be followed.

## Annex:

Annex to [Annex to IECEx ITS 14.0065X issue 0.pdf](#)



### Schedule of Drawings for Certificate: IECEx ITS 14.0065X Issue 0

Manufacturer:

Teledyne Analytical Instruments Inc.  
16830 Chestnut Street, City of Industry, California 91748. USA

Conditions of manufacture:

- Functional test of safety devices shall be verified and recorded.
- Leakage test shall be carried out in accordance with EN 60079-2:2007 clause 16.2 and recorded.
- The containment system shall be tested in accordance with EN 60079-2:2007 clause 16.7 and results recorded.
- Label must stipulate the worst case temperature classification with regards to the specific component utilized.

Title	Drawing No.:	Rev. Level:	Date:
OUTLINE DIAGRAM STRIPPER UNIT MODEL 4080/ 4000 SERIES (SHEETS 1 TO 5)	D- 91840	3	05/14/15
TOXIC/FLAMMABLE LIQUIDS/GASES ENCLOSURE DANGER TAG	B- 64496	2	6-15-95
PIPING DIAGRAM LHC ANALYSIS SYSTEM MODEL 4080/4020, ATEX CERT	C- 91839	1	08/07/14
TAG DETAIL WARNING LABEL ASPHYXIATION RISK	B- 86356	0	11/04/11
TAG DETAIL WARNING LABEL PRESSURIZED ENCLOSURE	B- 86355	0	11/04/11
WIRING DIAGRAM STRIPPER/ ANALYSIS SYSTEM MODEL 4080/ 4020 (SHEETS 1 TO 6)	D- 91842	3	11/20/14

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