



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 BAS 12.0078X issue No.:4

Status: **Current**

Date of Issue: 2016-01-13 Page 1 of 4

Certificate history:
Issue No. 4 (2016-1-13)
Issue No. 3 (2015-8-3)
Issue No. 2 (2014-11-26)
Issue No. 1 (2014-4-14)
Issue No. 0 (2014-1-13)

Applicant: **Teledyne Analytical Instruments**
16830 Chestnut Street
City of Industry
California
91748 - 1017
United States of America

Electrical Apparatus: **Oxygen Measuring Transmitter Type Insta Trans-XD**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T4 Ga (Ta = 0°C to +50°C)**

Approved for issue on behalf of the IECEx Certification Body: Ron Sinclair

Position: Technical Manager

Signature:
(for printed version)


pp. Ron Sinclair

Date:

14 January 2016

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](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **Teledyne Analytical Instruments**
16830 Chestnut Street
City of Industry
California
91748 - 1017
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 electrical 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 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*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/BAS/ExTR12.0143/00
GB/BAS/ExTR15.0376/00

GB/BAS/ExTR14.0320/00

GB/BAS/ExTR15.0212/00

Quality Assessment Report:

GB/BAS/QAR12.0008/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Teledyne Analytical Instruments Insta Trans-XD Trace Oxygen Digital Transmitter is an instrument for measuring the oxygen content in a gas sample.

The front panel contains an LCD surrounded by a membrane panel with user controls. The body of the electronics assembly is manufactured from aluminium, and that of the housing around the sensor is either stainless steel or plastic.

The unit is loop powered via a 2 wire 4-20mA interface.

Input Terminal Parameters

U_i = 28V
I_i = 93mA
P_i = 0.66W
C_i = 1.1nF
L_i = 0

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The electrical connections are not isolated from ground. This must be taken into account during installation and use.
2. To reduce the risk of ignition protect the aluminium case from impact or friction when in Zone 0 areas.
3. Potential electrostatic hazard. The equipment should only be cleaned with a damp cloth, and must not be installed where it could be subject to high airflow dust laden atmospheres.



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

Variation 4.1

To permit minor electrical changes.

ExTR: GB/BAS/ExTR15/0376/00

File Reference: 15/0942