



# 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.:	<b>IECEX BAS 12.0078X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 5	Issue 4 (2016-01-13)
Date of Issue:	2023-09-22		Issue 3 (2015-08-03)
Applicant:	<b>Teledyne Analytical Instruments</b> 16830 Chestnut Street City of Industry California 91748 - 1017 <b>United States of America</b>		Issue 2 (2014-11-26)
Equipment:	<b>Oxygen Measuring Transmitter Type Insta Trans-XD</b>		Issue 1 (2014-04-14)
Optional accessory:			Issue 0 (2014-01-13)
Type of Protection:	<b>Intrinsic Safety</b>		
Marking:	<b>Ex ia IIC T4 Ga (Ta = 0°C to +50°C)</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ron Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

pp D. Brearley

Date:  
(for printed version)

22/9/2023

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Certificate issued by:

**SGS UK 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**

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

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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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:

[GB/BAS/ExTR12.0143/00](#)  
[GB/BAS/ExTR15.0376/00](#)

[GB/BAS/ExTR14.0320/00](#)  
[GB/SGS/ExTR23.0089/00](#)

[GB/BAS/ExTR15.0212/00](#)

Quality Assessment Report:

[GB/BAS/QAR12.0008/08](#)



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## **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

$U_i = 28V$

$I_i = 93mA$

$P_i = 0.66W$

$C_i = 1.1nF$

$L_i = 0$

## **SPECIFIC CONDITIONS OF USE: 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 5**

To confirm the equipment meets the requirements of IEC 60079-0:2017 Issue 7, and to allow the use of a replacement piezoelectric crystal.

ExTR: **GB/SGS/ExTR23.0089/00**

File Reference: **22/0473**