

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa12ATEX0114X- Issue 4**

4 Equipment or Protective System: **Oxygen Measuring Transmitter Type Insta Trans-XD**

5 Manufacturer: **Teledyne Analytical Instruments**

6 Address: **16830 Chestnut Street, City of Industry, California, 91748 - 1017, USA**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0376/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 + A11:2013 EN 60079-11:2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 1G Ex ia IIC T4 Ga (0°C ≤ T_a ≤ +50°C)

Baseefa Customer Reference No. **1081**

Project File No. **15/0942**

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GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa12ATEX0114X– Issue 4

15 Description of Equipment or Protective System

The Teledyne Analytical Instruments Insta Trans-XD Trace Oxygen Digital Transmitter is a versatile instrument for detecting oxygen at the parts-per-million (ppm) level in a variety of gases.

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

$$\begin{aligned}U_i &= 28V \\I_i &= 93mA \\P_i &= 0.66W \\C_i &= 1.1nF \\L_i &= 0\end{aligned}$$

16 Report Number

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17 Specific Conditions of Use

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 when in zone 0 areas 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.

18 Essential Health and Safety Requirements

As follows, in addition to those covered by the standards at item 9.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Standards require manufacturer's declaration.
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues.
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 Drawings and Documents

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
B78550	1 & 2	4	09/02/15	PCB Assembly Insta Trans-XD Analyzer, Parts List
B-78550	1	4	9/04/15	Insta Trans-XD Main PCB Assembly
C82620	1 to 4	8	9-1-15	Final Assembly Model Insta Trans-XD
C-84016	1	2	8-31/15	Model Insta Trans-XD Transmitter Unit Cell Body Assembly

These drawings are held with IECEx BAS 12.0078 issue 4.

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
B-71367	1	3	9/14/11	Assembly Contact Plate
B-71626	1	2	7/20/11	Cell Body Wiring Diagram
B-78549	1	3	5/14/15	Insta-Trans XD Main PCB Schematic
B-78551	1 to 4	4	7/16/15	Insta Trans-XD Fab Detail
B-84843	1	1	9/26/11	Finishing Detail Insta Trans-XD Cell Holder
B-86784	1	0	3/08/13	ATEX Tag Model Insta Trans-XD
C-80981	1 & 2	2	9/30/10	Membrane Switch Detail Transmitter Unit Model Insta Trans-XD

These drawings are held with IECEx BAS 12.0078X (various issues).

20 Certificate History

Certificate No.	Date	Comments
Baseefa12ATEX0114X	13 January 2014	The release of the prime certificate. The associated test and assessment is documented in Test Report GB/BAS/ExTR12.0143/00
Baseefa12ATEX0114X Issue 1	14 April 2014	This issue of the certificate has a revised description of the equipment without technical change.
Baseefa12ATEX0114X Issue 2	26 November 2014	This issue of the certificate is to permit minor electrical changes. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR14.0320/01.
Baseefa12ATEX0114X Issue 3	3 August 2015	This issue of the certificate is to permit minor electrical changes. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR15.0212/00.
Baseefa12ATEX0114X Issue 4	13 January 2016	This issue of the certificate is to permit minor electrical changes. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR15.0376/00.
For drawings applicable to each issue, see original of that issue.		