

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate **Baseefa12ATEX0114X – Issue 5**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **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 re-issued certificate extends EC Type Examination Certificate No. Baseefa12ATEX0114X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this 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 to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

EN IEC 60079-0: 2018 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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 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.

12 The marking of the product shall include the following:

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

SGS Fimko Oy Customer Reference No. **1081**

Project File No. **22/0473**

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SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa12ATEX0114X – Issue 5**

15 **Description of Product**

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

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

16 **Report Number**

See Certificate History

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**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
12.7	LVD type requirements
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 **Drawings and Documents**

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
B-78550	1 of 1	5	07/01/21	INSTA TRANS-XD MAIN PCB ASSEMBLY
B78550	1 to 2	5	07/01/21	PCB ASSEMBLY Insta Trans-XD ANALYZER

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
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
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

All drawings listed above are held with IECEx BAS 12.0078X Issue 5.

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	14 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.
Baseefa12ATEX0114X Issue 5	18 September 2023	This issue of the certificate confirms that the equipment meets the requirements of EN IEC 60079-0:2018, and allows the use of a replacement piezoelectric crystal. The associated test and assessment is documented in Test Report No GB/SGS/ExTR23.0089/00. Project File No. 22/0473.
For drawings applicable to each issue, see original of that issue.		