

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: **Baseefa12ATEX0076X**

4 Equipment or Protective System: **AZ30 Oxygen Probe**

5 Manufacturer: **ABB Limited**

6 Address: **Oldends Lane, Stonehouse, Gloucestershire, GL10 3TA**

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/ExTR 12.0061/00**

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

IEC 60079-0: 2011
EN 60079-1: 2007
EN 60079-31: 2009

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 2GD Ex d IIB+H₂ T4 Gb (Ta -20°C to +70°C) Ex tb IIC T135°C Db (Ta -20°C to +70°C) IP66

This certificate may only be reproduced in its entirety, without any change, schedule included.

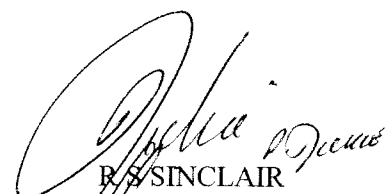
Baseefa Customer Reference No. **0614**

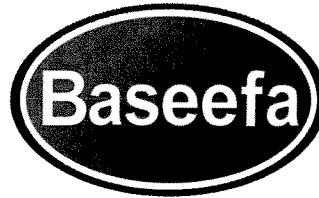
Project File No. **10/0114**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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R. S. SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa12ATEX0076X

15 Description of Equipment or Protective System

The AZ30 Oxygen Probe comprises a stainless steel tubular assembly of varying lengths intended to be inserted between 0.5m and 2.0m into a flue or similar detection zone. A mounting flange is welded to the probe tube.

At the inserted end of the probe tube is a stainless steel sinter assembly to permit the ingress of the sample gas to the detection cell.

At the protruding end is a cylindrical terminal/control housing with a threaded cover containing terminals and optional flow control devices together with associated pipework for calibration and reference gas/air supplies. The reference gas/air supplies optionally enter the enclosure via ports fitted with sintered metal elements at the rear of the terminal enclosure.

A cable entry boss is provided on the side of the enclosure to facilitate the connection of a suitably certified cable entry device via an insert threaded M20 or M25 or alternatively 1/2 NPT or 3/4 NPT.

Cable entry holes are provided for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Ex Equipment (not an Ex Component) under an EC-Type Examination Certificate to Directive 94/9/EC.

Variation 0.1

A Transmitter Unit as detailed by Baseefa12ATEX0078U may optionally be fitted to the cable entry boss via a Bartec Type 07-91 bushing to PTB97ATEX1047U

16 Report Number

Baseefa Certification Report GB/BAS/ExTR 12.0061/00

17 Specific Conditions of Use

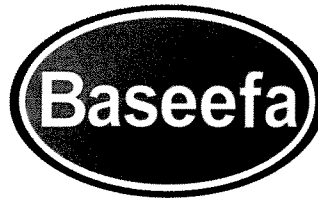
1. This apparatus is intended for use in atmospheres at, or below, normal pressures and oxygen levels, i.e. no greater than 1.1 bar and 21% respectively.
2. Some flamepath gaps are specified tighter than those permitted by Table 2 of EN 60079-1. The manufacturer's instructions are to be consulted for information on these dimensions if required for inspection and/or maintenance
3. For replacement purposes the fasteners shall be stainless steel grade A2/A4-70 or stronger
4. When used in dust atmospheres the cable entries shall be sealed in accordance with EN 60079-14 to maintain the IP66 rating

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
* AZ300 030	1	1	30/03/12	AZ30 G.A., System Drawing
** AZ300 030	2	1	30/03/12	AZ30 G.A., Probe Assembly
*** AZ300 030	3	1	30/03/12	AZ30 G.A., Probe Assembly, Internal Structure
** AZ300 030	4	1	30/03/12	AZ30 G.A., Probe Assembly, c/w Transmitter



Number	Sheet	Issue	Date	Description
*** AZ300 030	6	1	30/03/12	AZ30, Nameplate, Probe
*** AZ300 030	9	1	22/03/12	AZ30, Probe Sintered Breather
*** AZ300 030	10	1	22/03/12	AZ30, Terminal Box Sintered Breather

* This drawing is common to IECEx BAS 12.0048X, IECEx BAS 12.0049X, IECEx BAS 12.0050U, Baseefa12ATEX0077X and Baseefa12ATEX0078U and is held with IECEx 12.0048X.

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