



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 12.0050U issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2012-5-9)
Issue No. 0 (2012-4-23)

Date of Issue: **2012-05-09** Page 1 of 4

Applicant: **ABB Limited**
Oldends Lane
Stonehouse
Gloucestershire
GL10 3TA
United Kingdom

Electrical Apparatus: **AZ30 O2 Transmitter**
Optional accessory:

Type of Protection: **Flameproof & Dust Protection by Enclosure**

Marking: **Ex d IIB+H₂ T6 Gb (Ta -20°C to +55°C)**
Ex tb IIIC T85°C Db (Ta -20°C to +55°C) IP66

*Approved for issue on behalf of the IECEx
Certification Body:*

RS R S Sinclair *M Downey*

Position: General Manager

*Signature:
(for printed version)*

M Downey
9/5/12

Date:

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.

Certificate issued by:

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





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Page 2 of 4

Manufacturer: **ABB Limited**
Oldends Lane
Stonehouse
Gloucestershire
GL10 3TA
United Kingdom

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR12.0061/00

Quality Assessment Report:

GB/BAS/QAR08.0001/01



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Certificate No.: IECEx BAS 12.0050U

Date of Issue: 2012-05-09

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The AZ30 O₂ Transmitter comprises a cylindrical enclosure to IECEx FME 09.0001U coded Ex d IIC Ex de IIC Ex tD A21.

The inside of the enclosure is fitted with an electronics module (or 'cartridge'), including a display/interface that is visible through the threaded window cover.

At the rear of the enclosure, beneath a threaded cover, is a flameproof terminal chamber for the connection of incoming cables. Up to three cable entry ports threaded M20 or 1/2 NPT are provided on the side of the unit for the connection of suitably certified cable entry devices or stopping plugs.

The transmitter unit may be fitted to either the AZ30 Oxygen Probe to IECEx BAS 12.0048X or the AZ30 Remote Terminal Housing to IECEx BAS 12.0049X, both via an Ex Component Line Bushing.

Cable entry holes are provided as specified on the certified drawings 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 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 and not an Ex Component.

Schedule of Limitation

1. In order to maintain the degree of protection IP66 the enclosure must be mounted and sealed as depicted on drawing AZ300 030.
2. The cylindrical aperture in the base of the enclosure must be fitted with a cylindrical bushing having the dimensions shown on drawing AZ300 030.
3. The flamepath gap at the bushing interface is specified tighter than that permitted by Table 2 of IEC60079-1. The manufacturer's instructions shall be consulted for information on the dimensions if required for inspection and/or maintenance

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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Certificate No.: IECEx BAS 12.0050U

Date of Issue: 2012-05-09

Issue No.: 1

Page 4 of 4

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

Variation 1.1

Minor amendment to correct upper ambient temperature.