



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 09.0090X Issue No: 1 Certificate history:  
Issue No. 1 (2013-12-09)  
Status: Current Page 1 of 4 Issue No. 0 (2009-08-28)  
Date of Issue: 2013-12-09  
Applicant: **ABTECH Limited**  
5 Sanderson Street  
Sheffield  
S9 2UA  
United Kingdom  
Electrical Apparatus: **ABAD and ABRE Range of Thread Adaptors & Reducers**  
*Optional accessory:*  
Type of Protection: **Flameproof, Increased Safety and Dust Protection by Enclosure**  
Marking: **Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db IP66**  
or the alternative form  
**Ex db IIC Ex eb IIC Ex tb IIIC IP66**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

General Manager

Signature:  
(for printed version)

Date:

9-12-13

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](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **ABTECH Limited**  
5 Sanderson Street  
Sheffield  
S9 2UA  
United Kingdom

Additional 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'
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR09.0126/00](#)      [GB/BAS/ExTR13.0161/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0046/05](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The ABAD range of thread adaptors and ABRE range of thread reducers are manufactured in nickel plated brass and may be supplied in metric or NPT threadforms. The internal and external thread sizes may vary between M16 and M85 (or NPT equivalent) with the female thread being either smaller, or up to three sizes larger, than the male.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. If the adaptors are intended for use with increased safety (Ex e) or dust tight (Ex tD) enclosures, the threads should be sealed to maintain an IP 54 or IP6X respectively in accordance with IEC 60079-14.
2. Only one thread adaptor is permitted for each cable entry, blanking elements shall not be used with adaptors.



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

### Variation 2.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC60079-0: 2011 Ed 6, IEC60079-1: 2007 Ed 6, IEC60079-7: 2007 Ed 4 and IEC60079-31: 2008 Ed 1 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment other than the product marking. The product will now be marked as shown.

### Variation 2.2

Extension of the adaptor/reducer size range to include M90 and M100 threads, together with their NPT equivalents (3 1/2" and 4").

### Variation 2.3

The introduction of Metric to NPT and NPT to Metric threaded devices.

### Variation 2.4

The introduction of aluminium alloy and stainless steel as alternative materials of manufacture.

### Variation 2.5

Amendment of the size marking format such that the male thread size now precedes the female thread size.

ExTR: GB/BAS/ExTR13.0161/00

File Reference: 13/0306