

"Welcome to the K Controls e-training course designed to deliver useful "Pneumatic Valve Actuation" application information in small instalments."

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## EC Declarations of Conformity

A canary can be used detect dangerous build ups of methane or carbon monoxide in coal mines. However monitoring the reactions or death of a canary is no longer considered "state of the art". The canaries were used as recently as 1986 but now hand held detectors alert miners to the nature and extent of these gasses.

Technological knowledge is continually changing and ATEX Directive 94/9/EC states that these changes must be taken into account as far as possible and be utilised immediately. You certainly might question being sold a canary in place of a gas detector but how can the end user be reassured that a particular piece of explosion proof equipment is "state of the art".

This is where the "Declaration of Conformity" plays a vital role. A particular product might have been Type tested by a Notified Body and a certificate issued some time ago so there is no easy way of telling if that certificate represents the "state of the art". A "Declaration of Conformity" on the other hand is raised by the manufacturer on the day the product is placed on the market. Each individual product is treated separately in a legal sense.

The manufacturer has to keep up to date with changes in technological knowledge and ensure that the "Declarations of Conformity" being issued remain valid.

European standards that have been "Harmonised" are commonly understood to reflect current technological knowledge so this can be a good way of ensuring compliance. The manufacturer would have to prepare a detailed justification as to why any updated requirement reflected in a new harmonised standard should not apply to a particular product.

Annex X of the ATEX Directive 94/9/EC lists exactly what must be included in the declaration:

1. The name or identification mark and the address of the manufacturer or his authorized representative established within the Community.
2. A description of the equipment, protective system, or device referred to in Article 1 (2).
3. All relevant provisions fulfilled by the equipment, protective system, or device referred to in Article 1 (2).
4. Where appropriate, the name, identification number and address of the notified body and the number of the EC-type-examination certificate.
5. Where appropriate, reference to the harmonized standards.
6. Where appropriate, the standards and technical specifications which have been used.
7. Where appropriate, references to other Community Directives which have been applied.
8. Identification of the signatory who has been empowered to enter into commitments on behalf of the manufacturer or his authorized representative established within the Community.

A "Declarations of Conformity" is a legal requirement and is as important as the original Type test certificate. An example of a K Controls "Declaration of Conformity" is shown on the next page.



# E-training

K Controls designs and manufactures valve networking monitoring and control products:

Switchboxes  
Control Monitors  
Position Transmitters  
Corrosion resistant  
ATEX certified – gas + dust  
High and low temperatures  
IP68 for submersion  
Low powered solenoids  
Remote I/O compatible  
AS-interface®  
DeviceNet™  
PROFIBUS® PA  
FOUNDATION™ FIELDBUS  
4-20mA + HART®  
Wireless solutions  
Linear or rotary adaptation

K Controls can also supply your positioner requirements

## EC Declaration of Conformity

1. Herewith we, the manufacturer, **K Controls Ltd**  
**Process House**  
**Stone Close**  
**Horton Road, West Drayton**  
**Middlesex, UB7 8JU**  
**England**

Declare that construction, manufacture, inspection and testing of the equipment listed herein conforms with the EU Directives noted in section 5.

### 2. Product Description:

Description:	007 Control Monitor
Model number	SBZ-01230
Type	B4.1
ATEX Classification:	II 2 GD
Marking of equipment:	Exd IIB+H2 tD A21 IP67 T135°C(-50°C ≤ t <sub>amb</sub> ≤ +80°C)
EC Type Examination Certificate	Baseefa07ATEX0183
IECEx Certificate of Conformity	IECEx BAS 07.0051

### 3. Compliant with harmonised standards:

- EN 60079-0:2004 Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
- EN 60079-1:2004 Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosure 'd'
- IEC 60079-0:2004 Electrical apparatus for explosive gas atmospheres – Part 0: General requirements. Edition 4.0
- IEC 60079-1:2003 Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosure 'd'. Edition 5.0
- IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust. Edition 1
- IEC 61241-1:2004 Electrical apparatus for use in the presence of combustible dust. Edition 1

### 4. Control of internal production compliance:

- BS EN ISO9001:2000 (National Quality Assurance Certificate 3723)
- ATEX/IECEx Quality Notification No. Baseefa ATEX 0600
- Notified Body for EC Type Examination and production – Baseefa 1180 Buxton UK

### 5. CE marked in accordance with:

- ATEX Directive 94/9/EEC 'Equipment or Protective System Intended for use in Potentially Explosive Atmospheres'
- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

### 6. Authorised Person for the Manufacturer within the European Community:

Name: Brian E Prince

Position: Joint Managing Director

Signature:

Date: 24.03.09

Doc ref: DC-SBZ-01230 (Rev 3)

K Controls subscribes to an automatic standards updating service and keeps master copies of all declarations of Conformity for a minimum of 10 years.

For further information please contact: [sales@k-controls.co.uk](mailto:sales@k-controls.co.uk)



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4-20mA + HART®  
Wireless solutions  
Linear or rotary adaptation

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If you have any questions or comments, would like a colleague to receive this information or you would like the latest list of training documents, please use the contact details below:

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