30th October 2007

CHANGE REGISTRATION

This is to certify that the following change(s) have been accepted:

Holder of certificate:

Afriso Eurogauge Limited
Imberhorne Lane
East Grinstead
Sussex
RH19 1RF

Change details:

The address of the certificate holder is now:

Afriso Eurogauge Limited
Unit 4, The Satellite Business Village
Fleming Way
Crawley
West Sussex
RH10 9NE

Certificates affected:

Ex96D2387X Ex96D2388X Ex96D2389X Ex96D2390
Ex96D2391X Ex96D2392 BAS02ATEX1069X

Baseefa02ATEX0088 Baseefa02ATEX0089X Baseefa02ATEX0090X
Baseefa02ATEX0091X Baseefa02ATEX0228X Baseefa02Y0161X
Baseefa02Y0162X

The purpose of this document is to permit existing information (for example on Certificate Schedule Drawings or label marking) to be replaced by equivalent new information as described above. No other change may be made to the certified design.

Baseefa.
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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address

R S SINCLAIR
DIRECTOR
On Behalf of Baseefa (2001) Ltd.

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 : **Baseefa02ATEX0088**

4 Equipment or protective system: **A Control Unit Type S71X**

5 Manufacturer : **Afriso Eurogauge Co Ltd**

6 Address : **East Grinstead, West Sussex, RH19 1RF**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd. 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. **02(C)0029 dated 19 December 2002**

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

EN 50014: 1997 + A1 & A2 **EN 50020: 2002**

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 of 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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

12 The marking of the equipment or protective system shall include the following :

⟨Ex⟩ II (1) G [EEx ia] IIC (-20°C ≤ Ta ≤ +50°C)

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

Baseefa (2001) Ltd. Customer Reference No. **0370**

Project File No. **02/0029**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

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Reissued 3rd August 2006

Schedule

15 Description of Equipment or Protective System

The Control Unit Type S71X is designed for mounting in a safe area, as an interface between safe area and hazardous area apparatus and to restrict the transfer of energy to an intrinsically safe circuit by the limitation of voltage and current. The control unit provides a power supply, signal path and supervisory control for level transducers within the hazardous area. The control unit may be supplied from either a 250V a.c. source with an internal transformer and power supply circuit or directly from a 24V d.c. source with an internal regulator circuit.

The control unit contains signal conditioner circuit, filters and an intrinsically safe interface which are mounted on a printed circuit board and housed within a plastic enclosure, fitted with terminals, which provides a degree of protection of at least IP20.

Terminals 1 to 9:

Um = 250V.

Terminal 11 to 16:

U_o = 13V
I_o =76mA
P_o = 0.25W
C_i = 0
L_i = 0

Cable Parameters.

The Capacitance and either the Inductance or the Inductance to Resistance (L/R) ratio of the cables connected to the output terminals of the control unit should not exceed the following values:-

GROUP	C µF	L mH	OR	L/R Ratio µH/ohm
IIC	**1.0**	**6.42**		**110**
IIB	**6.2**	**25.67**		**403**
IIA	**22.5**	**53.02**		**848**

Variation 0.1

To permit various changes to the safe area circuitry, but retaining the intrinsically safe interface circuit, thus forming a Control Unit Type S74X. The input and output parameters for this unit are identical to those for the Control Unit Type S71X.

16 Report No.

02(C)0029

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

None additional to those covered by the Standards listed at item 9

19 Drawings and Documents

Number	Issue	Date	Description
2271 101 00	10	22/10/2002	Control Unit – S71X
2271 3006	5	24/10/2002	Block Diagram - S71X Mains
2271 3007	5	24/10/2002	Block Diagram - S71X 24Vd.c.
2271 3290	3	24/10/2002	Printed Circuit Board Layout – S71X
2271 3069	4	22/10/2002	Certification Label – S71X
2271 4075	4	24/09/2002	Housing Plate – S71X - 110/230V ac
2271 4077	4	24/09/2002	Housing Plate – S71X - 24V dc
2271 4090	2	24/10/2002	Zener Diode Link Board – S71X/S74X

Drawings associated with Variation 0.1

Number	Issue	Date	Description
2274 101 00	10	23/10/2002	Control Unit – S74X
2274 3006	4	24/10/2002	Block Diagram - S74X Mains
2274 3007	4	24/10/2002	Block Diagram - S74X 24Vd.c.
2274 3290	3	24/10/2002	Printed Circuit Board Layout – S74X
2274 3079	4	23/10/2002	Certification Label – S74X
2274 4075	4	24/09/2002	Housing Plate – S74X - 110/230V ac
2274 4077	4	24/09/2002	Housing Plate – S74X - 24V dc

1 # SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3	Supplementary EC - Type Examination Certificate Number:	**Baseefa02ATEX0088/1**
4	Equipment or Protective System:	**A Control Unit Type S71X**
5	Manufacturer:	**Afriso Eurogauge Co Ltd**
6	Address:	**East Grinstead, West Sussex, RH19 1RF**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0088 to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **0370**

Project File No. **06/0311**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

13 # Schedule

14 ## Certificate Number Baseefa02ATEX0088/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the optional substitution of the fuse FS1, 100mA, by an alternative 250mA fuse, within either the 24V d.c. versions of the Control Unit Type S74X. Also to permit the optional substitution of the fuse FS3, 100mA, by an alternative 250mA fuse, within either the 24V d.c. versions of the Control Unit Type S71X.

This change does not affect the original safety assessment.

16 Report Number

None

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
2271 3007	6	04/07/2006	Block Diagram - S71X 24Vd.c.
2274 3007	5	11/07/2006	Block Diagram - S74X 24Vd.c.

1 # SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3	Supplementary EC - Type Examination Certificate Number:	**Baseefa02ATEX0088/2**
4	Equipment or Protective System:	**A Control Unit Type S71X**
5	Manufacturer:	**Afriso Eurogauge Limited**
6	Address:	**Fleming Way, Crawley, West Sussex, RH10 9NE (formerly of East Grinstead, West Sussex, RH19 1RF)**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0088 to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **0370**

Project File No. **09/0444**

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.

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On behalf of
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13 **Schedule**

14 **Certificate Number Baseefa02ATEX0088/2**

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit minor changes to the drawings.

16 Report Number

None

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
2271 4075	1	5	24/09/09	S71X Housing Plate Notation 110/230V ac Versions
2271 4077	1	5	24/09/09	S71X Housing Plate Notation +24V DC Version
2274 4075	1	5	24/09/09	S71X Housing Plate Notation 110/230V ac Versions
2274 4077	1	5	24/09/09	S74X Housing Plate Notation +24V DC Version