



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 **Baseefa02ATEX0214X**
Number :

4 Equipment or protective system: **A Type GR2 Pressure Switch**

5 Manufacturer : **Delta Controls Limited**

6 Address : **West Molesey, Surrey, KT8 2UZ**

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)0227**

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

EN 50014 :1997 + Amendments 1 & 2, EN 50018 : 2000

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 :

⊕ II 2G EEx d IIC T6 T_{amb}= -40°C to +60°C or T4 T_{amb}= -40°C to +85°C

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

Baseefa (2001) Ltd. Customer Reference No. **0279**

Project File No. **02/0227**

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.

Baseefa (2001) Ltd.

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PP R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd.

Schedule

15 Description of Equipment or Protective System

A Type GR2 Pressure Switch comprises a cast aluminium outer housing into which screws a hermetically sealed microswitch assembly secured in position by a combined locking and external earth plate. The welded stainless steel microswitch assembly houses up to two microswitches each rated up to 250V a.c., 11A, and the electrical connections are provided by permanently attached leads passing through specified potting compound.

At the process end of the housing, an operating shaft passes through a threaded bush which is secured into a threaded entry in the housing using a thread locking compound. The operating shaft is retained using an enlarged internal diameter and/or a circlip. The outer housing is provided with a venting arrangement to prevent process pressure from entering the flameproof part of the housing.

Cable entry holes are provided as specified on the certificate schedule drawings for the accommodation of suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Any unused cable entry hole is to be fitted with a suitable BASEEFA certified flameproof stopping plug.

Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC may also be used in the manner specified above.

VARIATION 0.1

Alternative process connection attached to the outer housing to provide an alternative pressure switch designated;

A Type GR4

VARIATION 0.2

Alternative process connections attached to the outer housing to provide differential pressure switches designated;

i) **A Type GR3**

ii) **A Type GR6**

VARIATION 0.3

Alternative process connections attached to the outer housing to provide a temperature switch designated;

A Type GR7

VARIATION 0.4

Alternative use of cast stainless steel for the outer housing.



16 Report No.

02(C)0227

17 Special Condition for Safe Use

The permanently attached leads must be suitably protected against mechanical damage and terminated in a suitable junction or terminal facility.

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
14624	C	13/01/2003	GR2 General Arrangement
14625	A	13/01/2003	Certification Label
14626	C	13/01/2003	Snap Switch Detail
14627	A	13/01/2003	GR3/6/7 Details
14628	A	13/01/2003	GR4 Details



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: Baseefa02ATEX0214X/1

4 Equipment or Protective System: A Type GR2 Pressure Switch

5 Manufacturer: Delta Controls Limited

6 Address: West Molesey, Surrey, KT8 2UZ

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0214X 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 (2001) Ltd. Customer Reference No. 0279

Project File No. 04/0588

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.

A handwritten signature in blue ink, appearing to read "R S Sinclair".

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On behalf of
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13

Schedule

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Certificate Number Baseefa02ATEX0214X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

Optional alternative vent arrangement incorporating the existing venting device with the addition of a cover plate and seal fitted to the Type GR2 and GR4 variants only.

16 **Report Number**

Baseefa Report No 04(CI)0588.

17 **Special Conditions for Safe Use**

None additional to those listed previously.

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
14757	-	03/08/2004	Optional Vent Device



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: **Baseefa02ATEX0214X/2**

4 Equipment or Protective System: **A Type GR2 Pressure Switch**

5 Manufacturer: **Delta Controls Limited**

6 Address: **West Molesey, Surrey, KT8 2UZ**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0214X 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.

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Baseefa (2001) Ltd. Customer Reference No. 0279

Project File No. 04/0627

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Schedule

14

Certificate Number Baseefa02ATEX0214X/2

15

Description of the variation to the Equipment or Protective System

Variation 2.1

Alternative process connection attached to the outer housing of the type GR2 switch to provide a vacuum and compound switch.

16

Report Number

None

17

Special Conditions for Safe Use

None additional to those listed previously.

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
14758	A	13/08/2004	General Assembly - Vacuum and Compound Switch



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: **Baseefa02ATEX0214X/3**

4 Equipment or Protective System: **A Type GR2 Pressure Switch**

5 Manufacturer: **Delta Controls Limited**

6 Address: **West Molesey, Surrey, KT8 2UZ**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0214X 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.

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Baseefa Customer Reference No. **0279**

Project File No. **05/0099**

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A handwritten signature in blue ink that reads "R S Sinclair".

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Schedule

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Certificate Number Baseefa02ATEX0214X/3

15 **Description of the variation to the Equipment or Protective System**

Variation 3.1

Optional alternative vent arrangement incorporating a vent hole of increased diameter fitted with a drilled rubber disc.

Variation 3.2

Clarification of label thickness which is now 0.5mm \pm 0.3.

16 **Report Number**

Baseefa Report No 05(CI)0099.

17 **Special Conditions for Safe Use**

None additional to those listed previously.

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
14624	D	19/05/2005	GR2 General Arrangement
14766	A	07/02/2005	Alternative Vent Arrangement
14625	B	23/06/2005	Certification Label



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: **Baseefa02ATEX0214X/4**

4 Equipment or Protective System: **GR2 Pressure Switch**

5 Manufacturer: **Delta Controls Limited**

6 Address: **West Molesey, Surrey, KT8 2UZ**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0214X 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.

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Baseefa Customer Reference No. **0279**

Project File No. **08/0087**

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
Baseefa

Re-issued 27th September 2010 to replace original



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Schedule

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Certificate Number Baseefa02ATEX0214X/4

15 **Description of the variation to the Equipment or Protective System**

Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2006, EN60079-1: 2004, in respect of the differences from EN 50014:1997 + Amendments 1 and 2 and EN50018: 2000 respectively, and that none of these differences affect this equipment.

Ex II 2 G Exd IIC T6 (T_{amb} - 40°C to + 65°C), or
Exd IIC T4 (T_{amb} - 40°C to + 85°C)

16 **Report Number**

Baseefa Certification Report 08(C)0087

17 **Special Conditions for Safe Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

None



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa02ATEX0214X/5**

4 Equipment or Protective System: **GR2 Pressure Switch**

5 Manufacturer: **Delta Controls Limited**

6 Address: **West Molesey, Surrey, KT8 2UZ**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0214X 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.

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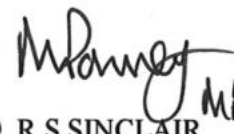
Baseefa Customer Reference No. **0279**

Project File No. **08/0603**

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AP 
R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa02ATEX0214X/5

15 **Description of the variation to the Equipment or Protective System**

Variation 5.1

To allow the M32 male thread tolerance class on the Snap Switch assembly to increase up to a g9 fit with the M32 female tolerance class remaining at H7

16 **Report Number**

Baseefa Certification Report 08(C)0603

17 **Special Conditions for Safe Use**

None additional to those listed previously

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
14626	D	10/11/08	Construction of Snap Switch



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: **Baseefa02ATEX0214X/6**
- 4 Equipment or Protective System: **GR2 Pressure Switch**
- 5 Manufacturer: **Delta Controls Limited**
- 6 Address: **Island Farm Avenue, West Molesey, Surrey KT8 2UZ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa02ATEX0214X** 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. **0279**

Project File No. **09/0600**

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Registered in England No. 4305578. Registered address as above.


R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa02ATEX0214X/6

15 Description of the variation to the Equipment or Protective System

Variation 6.1

Miscellaneous changes to the snap switch assembly including an alternative M20 male cable entry thread, an alternative potting material, and a single piece body option.

In addition the various labels may be replaced with marking direct onto the enclosure body.

16 Report Number

Baseefa Confidential Report No. 09(C)0600

17 Special Conditions for Safe Use

None in addition to that listed previously

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
14624	E	2009/12/21	General Arrangement
14626	E	2010/01/04	Snap Switch Detail

SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

Supplementary EU - Type Examination Certificate Number: **Baseefa02ATEX0214X/7**

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **GR2 Pressure Switch**

Manufacturer: **Delta Controls Limited**

Address: **Riverside Business Park, Dogflud Way, Farnham, GU9 7SS**

This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa02ATEX0214X** to apply to products 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.

SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0: 2012 +A11 2013 EN60079-1: 2014

except in respect of those requirements listed at item 18 of the Schedule."

The marking of the equipment has changed from the original Certificate and shall include the following:

Ex II 2 G Ex db IIC T6 Gb T_a - 40°C to + 60°C or
Ex db IIC T4 Gb T_a - 40°C to + 85°C

SGS Baseefa Customer Reference No. **0279**

Project File No. **14/0924**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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RS Sinclair
R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa02ATEX0214X/7

15 Description of the variation to the Product

Variation 7.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012 +A11: 2013 and EN60079-1: 2014, in respect of the differences from EN 60079-0: 2006 and EN60079-1: 2004 respectively.

Variation 7.2

To note change of company address.

16 Report Number

SGS Baseefa certification report 14(C)0924.

17 Specific Conditions of Use

None additional to those listed previously

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
14626	-	G	21.12.16	Snap Switch Assembly
14625	-	E	12.01.17	Certification Label