



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS02ATEX2191**

Equipment or Protective System: **A TYPE R 387 * * * * * PRESSURE
TRANSDUCER**

Manufacturer: **DELTA CONTROLS LIMITED**

Address: **Island Farm Avenue, West Molesey, Surrey, KT8 2UZ**

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

The Electrical Equipment Certification Service, notified body number 600 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 N°

00(C)0780 dated 1 August 2002

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

EN 50014: 1997 + Amds 1 & 2

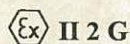
EN 50018: 2000

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

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

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.

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



II 2 G

EEx d IIC T6

EEx d IIC T4 (T_{amb} = -20°C to 90°C)

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

File No: **EECS 0279/01/011**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
16 August 2002



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2191

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Description of Equipment or Protective System

A Type R 387 * * * * * Pressure Transducer rated at 36V d.c. maximum, 1W maximum comprising a stainless steel housing with a threaded cover which is locked against loosening. Welded to the housing is a pressure entry incorporating a diaphragm with strain gauge elements which are monitored by the internal electronics. The electronics incorporate a 4-20 mA transmitter.

Various diaphragm materials can be provided and the thickness can vary according to the pressure range which can be up to 1000 bar.

Additional characters in the type number relate to the cable entry size, material of wetted parts, pressure range, electronics type and the pressure connection size.

Both internal and external earthing facilities are provided.

A cable entry hole is provided as specified on the certified drawings for the accommodation of a suitable BASEEFA certified flameproof cable entry device, with or without the interposition of a BASEEFA certified flameproof thread adaptor. The cabling methods used in service must be suitable for the conditions of use.

VARIATION ONE

Optional breather arrangement.

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Report No.

00(C)0780

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Special Conditions For Safe Use

None.

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Essential Health and Safety Requirements not covered by the Standards listed at 9 above

None.

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DRAWINGS

Number	Sheet	Issue	Date	Description
14646	1	A	05/07/2002	General Arrangement
14646	2	A	05/07/2002	Certification Detail
14646	3	A	05/07/2002	Circuit Board Arrangements

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BASEEFA List Keywords
2PRESSWI



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 **BAS02ATEX2191/1**
Examination Certificate Number:

4 Equipment or Protective System: **Type R 387 * * * * * Pressure Transducer**

5 Manufacturer: **Delta Controls Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS02ATEX2191** 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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


Baseefa Customer Reference No. **0279**

Project File No. **07/0712**

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

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


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



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Schedule

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Certificate Number BAS02ATEX2191/1

Variation 1.1

To confirm that the equipment covered by this certificate as amended by the above changes has been reviewed against the requirements of EN 60079-0: 2006, EN 60079-1: 2004, EN 61241-0: 2006 and EN 61241-1: 2004 in respect of the differences from the Standards to which this certificate was issued.

The units so formed are coded

Ⓔ II 2 GD Ex d IIC Ex tD A21 IP6X T85°C

and

Ⓔ II 2 GD Ex d IIC Ex tD A21 IP6X T135°C (Tamb = -20° to +90°C)

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 suitable 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 Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC.

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure

16 Report Number

Baseefa Certification Report No. 07(CI)0712

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	Sheet	Issue	Date	Description
14646	1	B	17/09/2007	General Arrangement