



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS99ATEX1294X**

Equipment or Protective System: **MODEL 1151 SMART PRESSURE TRANSMITTER**

Manufacturer: **ROSEMOUNT INC**

Address: **12001 Technology Drive, Eden Prairie, Minnesota 55344-3695, USA**

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°

99(C)0937 dated 15 March 2000


Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 EN 50020: 1994 EN 50284: 1999 EN 50281-1-1: 1998

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 1 GD T90°C (T_{amb} -20°C to 40°C) EEx ia IIC T5 (-60°C ≤ T_{amb} ≤ 40°C) or
EEx ia IIC T4 (-60°C ≤ T_{amb} ≤ 80°C)**

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

File No: EECS 0914/02/070

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.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244

I M CLEARE
DIRECTOR
17 March 2000



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX1294X

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Description of Equipment or Protective System

The Model 1151 Smart Pressure Transmitter is designed to convert the pressure across a diaphragm into a 4-20mA signal.

The apparatus comprises field connections via either a user interface module or a filter module, an interconnection board, a Smart IIIA board, a signal compensation board, a sensor board, a sensor and an optional meter, all housed in a metal enclosure conforming to IP66. If the optional meter is included, the enclosure has a glass window.

External connections are made via one of two tapped holes and the installation of the external connections and plugging of the unused entry must be carried out using the appropriate EEx e or EEx n metal cable gland and metal blanking plug Component Certified by an EU Approved Certification Body.

$$U_i = 30V$$

$$I_i = 125mA$$

$$P_i = 1.0W \text{ (T4 applications)}$$

$$P_i = 0.67W \text{ (T5 applications)}$$

The above parameters must be derived from a linear supply (resistive output).

$$C_{eq} = 0.034\mu F$$

$$L_{eq} = 20\mu H$$

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Report Nos.

99(C)0937

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Special Conditions For Safe Use

The Apparatus is not capable of withstanding the 500V insulation test required by EN 50020: 1994. This must be taken into account when installing the apparatus.

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Essential Health and Safety Requirements

Essential Health & Safety Requirements not covered by standards listed in Section 9		
Clause	Subject	Compliance
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 00(C)0937 Clause 5.1.1.3
1.2.2	Components for incorporation or replacement	Report No 00(C)0937 Clause 5.1.2.2
1.2.5	Additional means of protection	Report No 00(C)0937 Clause 5.1.2.5
1.4.2	Withstanding attack by aggressive substances	Report No 00(C)0937 Clause 5.1.4.2



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EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX1294X

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DRAWINGS

Number	Sheet	Issue	Date	Description
01151-0143	1 & 2	Y	10.2.96	Transformer (Oscillator)
01151-0563	1	H	11.14.94	Connector Board Layout
01151-0915	1 & 2	AA	8.11.99	Zener Diode Details
01151-0946	1 to 4	AD	12.2.99	Circuit Diagram, SMART IIIA
01151-0947	1 to 3	AD	12.2.99	PCB Artwork and Details, SMART IIIA
01151-0948	1 to 4	AE	12.2.99	PCB Assembly, SMART IIIA
01151-0976	1 to 3	AB	10.1.98	PCB Artwork and Details, Compensation Board
01151-0978	1 to 3	AA	6.22.98	PCB Artwork and Details, Transient Protection (2-Wire) Terminal Block
01151-0979	1 & 2	B	5.30.95	PCB Assembly, 2-Wire Terminal Block
01151-0990	1	B	7.1.93	Circuit Diagram, Connector Board
01151-0991	1 to 3	AB	8.11.98	PCB Artwork and Details, Gladiator (Connector) Board
01151-0992	1	D	5.30.95	PCB Assembly, Connector Board
01151-1051	1 to 3	C	1.29.92	PCB Artwork and Details, Transient Protection (Filter Module)
01151-1052	1 & 2	D	1.31.92	PCB Assembly, Filter Module
01151-1054	1 & 2	C	9.2.92	EMI Filter
01151-1060	1	B	3.5.93	Circuit Diagram, Filter Module
01151-2570	1 to 4	AC	2.22.00	Approval Drawing
01151-2572	1 to 3	E	4.9.96	Approval Drawing, Sensor Module
01151-2582	1 to 3	E	10.2.96	RFI Filter
01151-2591	1 & 2	AB	4.14.99	Assembly, 2-Wire Terminal Block

The above drawings are associated with Certificate No BAS99ATEX3293X

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BASEEFA List Keywords
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SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

Supplementary EC-Type Examination Certificate Number: **BAS99ATEX1294X/1**

Equipment or Protective System: **MODEL 1151 SMART PRESSURE TRANSMITTER**

Manufacturer: **ROSEMOUNT INC**

Address: **12001 Technology Drive, Eden Prairie, Minnesota 55344-3695, USA**

This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX1294X 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 and without any change, schedule included.

File No: EECS 0914/02/070

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.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
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I M CLEARE
DIRECTOR
25 October 2000



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX1294X/1**

Description of the Variation to the Equipment or Protective System

VARIATION ONE

External electrical connections are made via one of two tapped holes and the installation of the external connections and plugging of the unused entry must be carried out using the appropriate EEx e or EEx n metal cable gland and metal blanking plug, component certified to an EU Approved Certification Body. Alternatively any appropriate cable gland or blanking plug certified to Ex II 2G EEx e II by an EU Approved Certification Body.

Report No.

See original certificate.

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

None

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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: **BAS99ATEX1294X/2**

4 Equipment or Protective System: **MODEL 1151 SMART PRESSURE TRANSMITTER**

5 Manufacturer: **ROSEMOUNT INC**

6 Address: **12001 Technology Drive, Eden Prairie, Minnesota 55344-3695, USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS99ATEX1294X 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 (2001) Ltd. Customer Reference No. 0914

Project File No. 03/0675

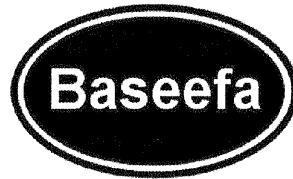
This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR

DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number BAS99ATEX1294X/2

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

Variation 2.1

To permit the apparatus to be supplied from Analog Input Modules of Type AI4H-Ex, Model AI 930 S and Analog Input Modules of Type AI4-Ex, Model AI 910 S in accordance with EC-Type Examination Certificate PTB 00 ATEX 2058.

16 **Report Number**

None.

17 **Special Conditions for Safe Use**

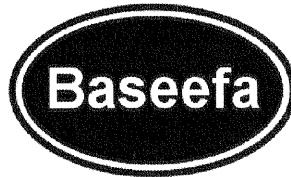
See original certificate.

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
Directive 94/9/EC**

3 Supplementary EC - Type **BAS99ATEX1294X/3**
Examination Certificate Number:

4 Equipment or Protective System: **Model 1151 Smart Pressure Transmitter**

5 Manufacturer: **Rosemount Incorporated**

6 Address: **12001 Technology Drive, Eden Prairie, Minnesota, 55344-3695, USA.**

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS99ATEX1294X 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.

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Baseefa (2001) Ltd. Customer Reference No. 0914

Project File No. 04/0094

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

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



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Schedule

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Certificate Number BAS99ATEX1294X/3

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

Variation 3.1

To permit minor modifications to drawings with no impact on intrinsic safety.

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	Sheet	Issue	Date	Description
01151-0143	1 & 2	AA	6/6/03	Transformer oscillator
01151-0563	1	AA	19/11/99	Circuit card assembly connector board
01151-0946	1 to 4	AG	28/7/03	Schematic Drawing 1151S IIIA (SMART3)
01151-0947	1 to 3	AE	19/1/00	Printed wiring board 1151 smart IIIA
01151-0948	1 to 3	AG	18/1/02	Circuit card assembly 1151 smart phase IIIA, coated
01151-0976	1 to 3	AD	7/8/03	Printed wiring board compensation board
01151-0991	1 to 3	AC	1/8/02	Printed wiring board connector BRD gladiator
01151-2570	1 to 4	AD	8/7/03	Approval drawing model 1151 smart IS & type n configurations, Baseefa
01151-2591	1 & 2	AC	15/11/01	Assembly terminal block, 2-wire

The above drawings are common to Certificate No BAS99ATEX3293X/2