



1 **EC-TYPE EXAMINATION CERTIFICATE**

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

5 EC-Type Examination Certificate Number : **BAS98ATEX1355X**

6 Equipment or Protective System: **MODEL 3051/3001 FIELDBUS PRESSURE TRANSMITTER**

7 Manufacturer: **ROSEMOUNT INCORPORATED**

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

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

10 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°

98(C)1042 dated 17 December 1998

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

EN 50014: 1997 EN 50020: 1994 prEN 50284: 1997

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

12 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.

13 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.

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

 **II 1 G EEx ia IIC T4 (-60°C ≤ T_{amb} ≤ 60°C)**

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

File No: **EECS 0914/02/054**

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
23 February 1999



Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X

15

Description of Equipment or Protective System

The Model 3051/3001 Fieldbus Pressure Transmitter is designed to convert a pressure signal into an electrical signal and is designed to operate in Foundation Fieldbus or Profibus PA mode by a change in software.

The apparatus comprises a terminal board, a fieldbus analogue board, a fieldbus digital board, a sensor board (three alternatives), a sensor and an optional liquid crystal display board, all housed in a metal enclosure. When the optional display is included the housing cover contains a glass window. External connections are made via an integral terminal block.

$$U_i = 30V$$

$$I_i = 300mA$$

$$P_i = 1.3W$$

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

$$C_i = 0$$

$$L_i = 0$$

16

Report No

98(C)1042

17

Special Conditions For Safe Use

1.

The Apparatus is not capable of withstanding the 500V insulation test required by Clause 6.4.12 of 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
1.0.4	Surrounding area conditions	Report No 98(C)1042 Clause 6.1.0.4
1.0.5	Marking	Report No 98(C)1042 Clause 6.1.0.5
1.0.6	Instructions	Report No 98(C)1042 Clause 6.1.0.6
1.1.1	Materials not to trigger off explosion	Report No 98(C)1042 Clause 6.1.1.1
1.1.2	Effect of explosive atmosphere on materials	Report No 98(C)1042 Clause 6.1.1.2
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 98(C)1042 Clause 6.1.1.3
1.2.1	Design with regard to technological knowledge	Report No 98(C)1042 Clause 6.1.2.1



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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X

Clause	Subject	Compliance
1.2.2	Components for incorporation or replacement	Report No 98(C)1042 Clause 6.1.2.2
1.2.3	Enclosed structures and prevention of leaks	Report No 98(C)1042 Clause 6.1.2.3
1.2.4	Dust deposits	Report No 98(C)1042 Clause 6.1.2.4
1.2.5	Additional means of protection	Report No 98(C)1042 Clause 6.1.2.5
1.2.6	Safe opening	Report No 98(C)1042 Clause 6.1.2.6
1.2.7	Protection against other hazards	Report No 98(C)1042 Clause 6.1.2.7
1.3.3	Hazards arising from stray electric and leakage currents	Report No 98(C)1042 Clause 6.1.3.3
1.3.5	Hazards arising from pressure compensation operations	Report No 98(C)1042 Clause 6.1.3.5
1.4.1	Safe function in changing external conditions	Report No 98(C)1042 Clause 6.1.4.1
1.4.2	Withstanding attack by aggressive substances	Report No 98(C)1042 Clause 6.1.4.2
1.6.4	Hazards arising from connections	Report No 98(C)1042 Clause 6.1.6.4
2.1.1	Category 1G	Report No 98(C)1042 Clause 6.2.1.1

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DRAWINGS

Number	Sheet	Issue	Date	Description
03031-0475	1 & 2	AC	12.98	Schematic, Fieldbus Analog
03031-0476	1 to 3	AC	6.10.98	PWB, Fieldbus Analog
03031-0478	1 & 2	AD	12.98	CCA, Fieldbus Analog
03031-0152	1	B	6.19.89	Holder, Reed Switch
03031-0479	1	AB	12.98	Schematic, Fieldbus Digital
03031-0480	1 to 3	AC	12.98	PWB, Fieldbus Digital
03031-0482	1	AC	8.26.98	CCA, Fieldbus Digital
03031-0585	1 & 2	B	11.13.95	Schematic, Sensor Board 3
03031-0586	1 to 4	AA	10.8.97	PWB Sensor Board 3
03031-0587	1 & 2	AC	6.25.98	CCA, Sensor Board 3
03031-0687	1	AA	5.28.98	System Schematic, Fieldbus CENELEC I.S.
03031-0815	1 & 2	AD	6.11.98	Schematic, Sensor Board 4
03031-0816	1 to 3	AE	6.11.98	PWB Sensor Board 4
03031-0817	1 & 2	AG	6.11.98	CCA, Sensor Board 4
03031-0926	1 to 3	AC	11.25.98	Schematic, Taconite Sensor
03031-0927	1 to 3	AC	4.30.98	PWB, Taconite Sensor
03031-0929	1 & 2	AG	11.25.98	CCA, Taconite Sensor
03031-1017	1 to 6	AD	9.8.98	Sensor Module



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X

Number	Sheet	Issue	Date	Description
03031-1049	1 to 4	AB	1.14.99	Approval drawing
0800-7609	1	D	10.15.97	Schematic, LCD Board
08800-7610	1 to 3	AA	10.15.97	PWB, LCD Board
08800-7611	1& 2	AC	5.18.98	CCA, LCD Board

The above drawings are associated with Certificate No. BAS98ATEX3356X

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BASEEFA List Keywords

2PRESMEA



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: **BAS98ATEX1355X/1**

4 Equipment or Protective System: **MODEL 3051/3001 FIELDBUS 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. BAS98ATEX1355X 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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File No: EECS 0914/02/054

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Electrical Equipment Certification Service
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I M CLEARE
DIRECTOR
20 July 1999



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X/1

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

To permit:

1. Minor mechanical modifications.
2. Drawing information changes.
3. A change of component.

Report Nos.

None

SPECIAL CONDITIONS FOR SAFE USE

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

<u>Number</u>	<u>Sheet</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
03031-0152	1 & 2	D	7/16/92	Reed switch holder
03031-0192	1 & 2	AA	5/2/97	LCD meter kit
03031-0815	1 & 2	AE	1/13/99	Sensor board 4 schematic
03031-0817	1 & 2	AH	1/13/99	Sensor board 4 assembly
03031-1017	1 to 4	AE	10/21/98	Approval drawing

The above drawings are associated with Certificate No. BAS98ATEX3356X/1

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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: **BAS98ATEX1355X/2**

4 Equipment or Protective System: **MODEL 3051/3001 FIELDBUS PRESSURE TRANSMITTER**

5 Manufacturer: **ROSEMOUNT INC**

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

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Electrical Equipment Certification Service
Health and Safety Executive
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I M CLEARE
DIRECTOR
1 August 2000



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X/2**

Description of the Variation to the Equipment or Protective System

VARIATION 2.1

To permit:

1. Alternative sensor modules.
2. Minor mechanical modifications.
3. Drawing information changes.

VARIATION 2.2

To permit the use of the apparatus in combustible dust conditions in accordance with EN 50281-1-1: 1998 and EN 50014: 1997. The surface temperature of the enclosure under dust conditions will not exceed 70°C in ambient temperatures between -20°C and 40°C. The enclosure conforms to the requirements of IP66.

The apparatus will be coded Ex II 1 GD T 70°C

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.

Report No.

00(C)0334

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

For compliance with Clause 2.1.2, Category 1D, see report No. 00(C)0334. For all other clauses see original certificate.

DRAWINGS

Number	Issue	Date	Description
3031-0152 Sheets 1 & 2	AB	7.30.99	Holder, Reed Switch
3031-0193 Sheets 1 to 3	AE	11.11.99	LCD Meter Kit



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X/2**

Number	Issue	Date	Description
3031-0477 Sheets 1 to 3	AE	1.00	CCA Fieldbus Analog
3031-0481 Sheets 1 to 3	AD	1.00	CCA Fieldbus Digital
3031-1049 Sheets 1 to 4	AD	6.14.00	Approval Drawing
3031-1017 Sheets 1 to 6	AG	6.14.00	Module Housing Assembly
08800-7609	AA	10.15.97	Schematic, Vortex LCD Board
08800-7611 Sheets 1 & 2	AD	1.6.00	CCA Vortex LCD

Drawing number 03031-0192 is deleted from the schedule and replaced by drawing number 03031-0193
Drawing number 03031-0478 is deleted from the schedule and replaced by drawing number 03031-0477
Drawing number 03031-0482 is deleted from the schedule and replaced by drawing number 03031-0481

The above drawings are associated with Certificate No. BAS98ATEX3356X/2

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

3 Supplementary EC-Type Examination Certificate Number: **BAS98ATEX1355X/3**

4 Equipment or Protective System: **MODEL 3051/3001 FIELDBUS 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. BAS98ATEX1355X 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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File No: EECS 0914/02/054

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I M CLEARE
DIRECTOR
17 July 2001



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X/3**

Description of the Variation to the Equipment or Protective System

VARIATION 3.1

To permit:

1. Drawing information changes.
2. Component changes to the Taconite Sensor Board.
3. Taconite Sensor Board layout changes.

Report No.

None.

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

<u>Number</u>	<u>Sheet</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
03031-0926	1 to 3	AE	4/1/01	3051TAC, Sensor Board Schematic
03031-0927	1 to 3	AF	5/25/01	3051/2088 PWB, Taconite Sensor Board
03031-0929	1	AJ	4/1/01	3051/2088 Sensor PCB Assembly

The above drawings are associated with Certificate No BAS98ATEX3356X/3

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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: **BAS98ATEX1355X/4**

4 Equipment or Protective System: **MODEL 3051/3001 FIELDBUS 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. BAS98ATEX1355X 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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File No: EECS 0914/02/054

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IM
I M CLEARE
DIRECTOR
22 January 2002



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1355X/4**

Description of the Variation to the Equipment or Protective System

VARIATION 4.1

To permit:

1. Drawing information changes.
2. The use of a FISCO Transient Protection Board thus forming the Model 3051/3001 FISCO coded Ⓧ II 1 G, EEx ia IIC T4 ($-60^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}\text{C}$)

$U_i = 15\text{V}$

IIC:- $I_i = 215\text{mA}$

IIB:- $I_i = 500\text{mA}$

$C_i = \leq 5\text{nF}$

$P_i = 2\text{W}$

$P_i = 5.32\text{W}$

$L_i = \leq 10\mu\text{H}$

Report No.

01(CI)0916 dated 11 December 2001

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
03031-1049	1 to 4	AE	8/14/01	3051 Fieldbus, Approval Drawing
03031-0690	1	AC	12/7/01	3051 Fieldbus, FISCO Terminal Board Schematic
03031-0691	1 to 3	AD	12/7/01	3051 Fieldbus, FISCO Terminal Block PWB
03031-0692	1 & 2	AD	12/7/01	3051 Fieldbus, FISCO Terminal Block Assy

The above drawings are associated with Certificate No BAS98ATEX3356X/4

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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: BAS98ATEX1355X/5

4 Equipment or Protective System: MODEL 3051/3001 FIELDBUS 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. BAS98ATEX1355X 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. 02/0416

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".

Baseefa (2001) Ltd.

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Derbyshire, SK17 9BJ

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



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Schedule

14

Certificate Number BAS98ATEX1355X/5

15

Description of the variation to the Equipment or Protective System

Variation 5.1

To permit minor drawing changes that do not affect the intrinsic safety assessment

16

Report Number

None

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Special Conditions for Safe Use

None additional to those listed previously

18

Essential Health and Safety Requirements

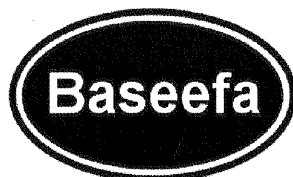
Compliance with the Essential Health and Safety Requirements is not affected by this variation.

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Drawings and Documents

Number	Sheet	Issue	Date	Description
03031-0152	1	AC	04/17/02	Holder, Reed Switch
03031-0193	1 to 3	AJ	04/03/02	Kit, Spares, LCD Meter
03031-0475	1 & 2	AD	05/31/00	Fieldbus Analog Electronics
03031-0477	1 & 2	AH	05/29/01	Circuit Card Assy - Analog
03031-0479	1	AD	12/08/00	Fieldbus Digital Electronics
03031-0481	1 & 2	AH	03/16/01	Circuit Card Assy -Digital
03031-0687	1	AB	08/16/01	Schematic Diagram
03031-0691	1 to 3	AE	03/06/02	PWB – Transient protection
03031-0692	1& 2	AF	08/12/02	Terminal block assembly
03031-0929	1	AK	04/15/02	Circuit card assembly Sensor Taconite
03031-1017	1 to 6	AJ	09/18/01	Module Housing Assembly
08800-7610	1 to 3	AB	08/21/02	PWB – Transient protection
08800-7611	1 & 2	AF	08/21/02	CCA LCD board

The above drawings are associated with Certificate Number BAS98ATEX3356X/5



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: **BAS98ATEX1355X/6**

4 Equipment or Protective System: **MODEL 3051/3001 FIELDBUS 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. BAS98ATEX1355X 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. 0914

Project File No. 03/0675

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Baseefa (2001) Ltd.

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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 BAS98ATEX1355X/6

15 Description of the variation to the Equipment or Protective System

Variation 6.1

To permit the apparatus, excluding FISCO Models, 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

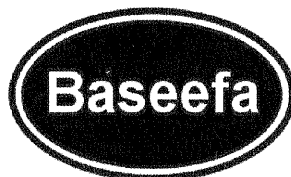
See original certificate.

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**
3 **Directive 94/9/EC**

3 Supplementary EC - Type **BAS98ATEX1355X/7**
4 Examination Certificate Number:

4 Equipment or Protective System: **Model 3051/3001 Fieldbus 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. BAS98ATEX1355X 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. 0914

Project File No. 03/1061

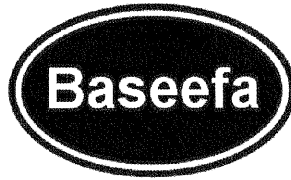
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On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number BAS98ATEX1355X/7

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

Variation 7.1

To permit the local encapsulation of Q1 on the Analogue Board for all versions of the Model 3051/3001 Fieldbus Pressure Transmitter

Variation 7.2

To permit the input parameters associated with the Model 3051/3001 FISCO (introduced at variation 4.1) to be changed as followed from a suitably certified FISCO Power Supply:

U_i = 17.5V
 I_i = 380mA
 P_i = 5.32W
 C_i = ≤ 5 nF
 L_i = ≤ 10 μ H

The above values apply to both Group IIC and IIB and the C_i and L_i values do not exceed those specified for the FISCO Model

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
03031-1049	1 to 4	AF	12/04/03	Model 3051 Assembly
03031-0477	1 & 2	AJ	11/05/03	Circuit Card Assy - Analog

The above drawings are associated with Certificate Number BAS98ATEX3356X/6