EC-TYPE EXAMINATION CERTIFICATE

1

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

3 EC-Type Examination Certificate Number : **BAS98ATEX1359X**

4 Equipment or Protective System: **MODEL 3095MV PRESSURE TRANSMITTER AND MODEL 3095C LEVEL CONTROLLER**

5 Manufacturer: **ROSEMOUNT INCORPORATED**

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

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

8 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)0944 dated 18 March 1999

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

EN 50014: 1997 **EN 50020: 1994** **EN 50284: 1997**

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 for 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 T4 ($-45°C \leq T_a \leq +70°C$) or T5 ($-45°C \leq T_a \leq +40°C$)**

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

File No: EECS 0914/02/053

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.

I M CLEARE
DIRECTOR
31 March 1999

HSE Health & Safety Executive

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

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE Nº BAS98ATEX1359X**

15 **Description of Equipment or Protective System**

The Model 3095MV Pressure Transmitter and Model 3095C Level Controller are designed to measure the flow rate of fluids in process pipework by converting pressure into an electrical signal.

The apparatus consists of a differential pressure cell and/or an absolute pressure cell connected to electronic circuitry which converts the pressure information into an output signal. The electronic circuitry is contained in an aluminium/stainless steel enclosure with a central partition that forms two compartments, one with a terminal board for external connections and the other with an output board, an optional liquid crystal display board and analogue/digital/EMI board (or a single sensor board). The open ends of the compartments are fitted with threaded covers. An optional cover with glass window and liquid crystal display (LCD) is a available. The connection of an external resistance thermometer detector (RTD) is permitted via a terminal block.

The Model 3095MV Pressure Transmitter differs from the 3095C Level Controller by using an alternative terminal block arrangement.

Supply Terminals

$U_i = 30V$
$I_i = 0.2A$
$P_i = 1.0W$

This must be supplied from a linear source (resistive)

$C_i = 0.012\ \mu F$

RTD Terminals

$U_o = 30V$
$I_o = 19mA$
$P_o = 0.14W$

Load Parameters

The Capacitance and either the Inductance OR the Inductance to Resistance ratio (L/R) of the load connected to the 4-pin connector must not exceed the following values:-

GROUP	CAPACITANCE in µF	INDUCTANCE in mH	OR	L/R RATIO in µH/ohm
IIC	0.066	96		247
IIB	0.560	365		633
IIA	1.820	696		633

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1359X**

16 **Report No**

98(C)0944

17 **SPECIAL CONDITIONS FOR SAFE USE**

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.

18 **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)0944 Clause 6.1.0.4
1.0.5	Marking	Report No 98(C)0944 Clause 6.1.0.5
1.0.6	Instructions	Report No 98(C)0944 Clause 6.1.0.6
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 98(C)0944 Clause 6.1.1.3
1.2.1	Design with regard to technological knowledge	Report No 98(C)0944 Clause 6.1.2.1
1.2.2	Components for incorporation or replacement	Report No 98(C)0944 Clause 6.1.2.2
1.2.4	Dust deposits	Report No 98(C)0944 Clause 6.1.2.4
1.2.5	Additional means of protection	Report No 98(C)0944 Clause 6.1.2.5
1.2.7	Protection against other hazards	Report No 98(C)0944 Clause 6.1.2.7
1.3.3	Hazards arising from stray electric and leakage currents	Report No 98(C)0944 Clause 6.1.3.3
1.4.2	Withstanding attack by aggressive substances	Report No 98(C)0944 Clause 6.1.4.2
1.6.4	Hazards arising from connections	Report No 98(C)0944 Clause 6.1.6.4
2.1.1	Category 1G	Report No 98(C)0944 Clause 6.2.1.1

19 **DRAWINGS**

Number	Sheet	Issue	Date	Description
03095-1018	1	AA	03/09/98	3095 I.S. System
03095-1018	2	AA	03/09/98	3095 I.S. System
03095-1005	1	AF	03/12/99	Model 3095 General Assembly
03095-1005	2	AF	03/12/99	Model 3095 General Assembly
03095-1005	3	AF	03/12/99	Model 3095 General Assembly
03095-1005	4	AF	03/12/99	Model 3095 General Assembly
03095-1005	5	AF	03/12/99	Model 3095 General Assembly
03095-1005	6	AF	03/12/99	Model 3095 General Assembly
03095-1005	7	AF	03/12/99	Model 3095 General Assembly

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1359X**

Number	Sheet	Issue	Date	Description
Common Printed Circuit Boards				
03095-0927	1	AA	06/10/97	Output Circuit Card Schematic
03095-0927	2	AA	06/10/97	Output Circuit Card Schematic
03095-0927	3	AA	06/10/97	Output Circuit Card Schematic
03095-0927	4	AA	06/10/97	Output Circuit Card Schematic
03095-0928	1	AA	01/16/98	Output Circuit Card - Printed Wiring Board
03095-0928	2	AA	01/16/98	Output Circuit Card - Printed Wiring Board
03095-0928	3	AA	01/16/98	Output Circuit Card - Printed Wiring Board
03095-0928	4	AA	01/16/98	Output Circuit Card - Printed Wiring Board
03095-0928	5	AA	01/16/98	Output Circuit Card - Printed Wiring Board
03095-0929	1	AL	10/08/98	Output Circuit Card Assembly
03095-0929	2	AL	10/08/98	Output Circuit Card Assembly
03095-0929	3	AL	10/08/98	Output Circuit Card Assembly
03095-0929	4	AL	10/08/98	Output Circuit Card Assembly
03095-0929	5	AL	10/08/98	Output Circuit Card Assembly
08800-7609	1	D	10/15/97	LCD Board Schematic Diagram
08800-7610	1	AA	10/15/97	LCD Board - Printed Wiring Board
08800-7610	2	AA	10/15/97	LCD Board - Printed Wiring Board
08800-7610	3	AA	10/15/97	LCD Board - Printed Wiring Board
08800-7611	1	AC	05/18/98	LCD Board
08800-7611	2	AC	05/18/98	LCD Board
Option A - Digital/Analogue/EMI Board				
03095-0908	1	D	09/27/94	Digital Sensor Schematic
03095-0908	2	D	09/27/94	Digital Sensor Schematic
03095-0908	3	D	09/27/94	Digital Sensor Schematic
03095-0909	1	AA	01/16/98	Digital Sensor - Printed Wiring Board
03095-0909	2	AA	01/16/98	Digital Sensor - Printed Wiring Board
03095-0909	3	AA	01/16/98	Digital Sensor - Printed Wiring Board
03095-0909	4	AA	01/16/98	Digital Sensor - Printed Wiring Board
03095-0911	1	F	05/03/96	Digital Sensor - Circuit Card Assembly
03095-0912	1	H	04/19/96	Analog Sensor Schematic
03095-0912	2	H	04/19/96	Analog Sensor Schematic

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX1359X**

Number	Sheet	Issue	Date	Description
03095-0913	1	J	02/03/95	Analog Sensor - Printed Wiring Board
03095-0913	2	J	02/03/95	Analog Sensor - Printed Wiring Board
03095-0913	3	J	02/03/95	Analog Sensor - Printed Wiring Board
03095-0913	4	J	02/03/95	Analog Sensor - Printed Wiring Board
03095-0915	1	J	09/30/96	Analog Sensor - Circuit Card Assembly
03095-0916	1	B	12/08/94	EMI Schematic
03095-0917	1	C	12/02/94	EMI Sensor - Printed Wiring Board
03095-0917	2	C	12/02/94	EMI Sensor - Printed Wiring Board
03095-0917	3	C	12/02/94	EMI Sensor - Printed Wiring Board
03095-0918	1	B	12/02/94	EMI Sensor - Circuit Card Assembly
Option B - Single Sensor Board				
03095-0950	1	AD	02/22/99	Single Sensor Schematic Diagram
03095-0950	2	AD	02/22/99	Single Sensor Schematic Diagram
03095-0950	3	AD	02/22/99	Single Sensor Schematic Diagram
03095-0951	1	AC	06/11/98	Single Sensor Printed Wiring Board
03095-0951	2	AC	06/11/98	Single Sensor Printed Wiring Board
03095-0951	3	AC	06/11/98	Single Sensor Printed Wiring Board
03095-0953	1	AC	02/22/99	Single Sensor Circuit Card Assembly

The above drawings are associated with Certificate No. BAS98ATEX3360X

BASEEFA List Keywords
2PRESMEA

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:	**BAS98ATEX1359X/1**
4	Equipment or Protective System:	**MODEL 3095MV PRESSURE TRANSMITTER AND MODEL 3095C LEVEL CONTROLLER**
5	Manufacturer:	**ROSEMOUNT INC.**
6	Address:	**12001 Technology Drive, Minneapolis, Minnesota 55344-3695, USA**

This supplementary certificate extends EC – Type Examination Certificate No. BAS98ATEX1359X 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.

Baseefa (2001) Ltd. Customer Reference No. **0914**

Project File No. **03/0481**

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

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13 **Schedule**

14 **Certificate Number BAS98ATEX1359X/1**

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the addition of a connection head and RTD assembly, forming a Model 3095MFA Mass ProBar. The RTD circuit is electrically connected to the Transmitter circuit and may be mounted locally or remotely. Input parameters remain unchanged.

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

Number	Sheet	Issue	Date	Description
SU-9041	to 6	AC	05/07/03	Approval drawing for Model 3095MFA Mass ProBar

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:	**BAS98ATEX1359X/2**
4	Equipment or Protective System:	**MODEL 3095MV PRESSURE TRANSMITTER AND MODEL 3095C LEVEL CONTROLLER**
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. BAS98ATEX1359X 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 (2001) Ltd. Customer Reference No. **0914**

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On behalf of
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13 # Schedule

14 ## Certificate Number BAS98ATEX1359X/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 Examination Certificate Number:	**BAS98ATEX1359X/3**
4	Equipment or Protective System:	**Model 3095MV Pressure Transmitter and Model 3095C Level Controller**
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. BAS98ATEX1359X 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.

Baseefa (2001) Ltd. Customer Reference No. **0914**

Project File No. **03/0632**

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On behalf of
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13 # Schedule

14 ## Certificate Number BAS98ATEX1359X/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

To permit the following:

1. Circuit and pcb changes to the Output Circuit Card Assembly 03095-0929
2. Circuit and pcb changes to the Single Sensor Circuit Card Assembly 3095-0953
3. Minor changes to drawings which do not affect intrinsic safety.
4. The following drawings are now obsolete:

Number	Issue
03095-0908	D
03095-0909	AA
03095-0911	F
03095-0912	H
03095-0913	J
03095-0915	J
03095-0916	B
03095-0917	C
03095-0918	B
03095-0927	AA

Variation 3.2

To permit the use of an alternative process connection thus forming a Model 3095MFC.

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

Variation 3.1

Number	Sheet	Issue	Date	Description
03095-0927	1&2	AB	5.21.03	Output Electronics Circuit
03095-0928	1 to 3	AB	5.21.03	Output Electronics PCB
03095-0929	1 to 4	AU	5.21.03	Output Electronics PCB Assembly
03095-0950	1 to 3	AF	1.21.03	Single Sensor Circuit
03095-0951	1 to 3	AH	8.10.01	Single Sensor PCB
03095-0953	1	AG	1.24.02	Single Sensor PCB Assembly
08800-7609	1	AA	10.15.97	LCD Circuit
08800-7610	1 to 3	AB	8.21.02	LCD PCB
08800-7611	1&2	AF	8.21.02	LCD PCB

Variation 3.2

Number	Sheet	Issue	Date	Description
SU-9976	1	AC	08.26.03	General Assembly – Model 3095MFC