



## EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS00ATEX1166X**

Equipment or Protective System: **2088 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)0120 dated 10 December 2001**

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**  
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:-

**Ex II 1 G**      **EEx ia IIC T5 (-55°C ≤ T<sub>amb</sub> ≤ 40°C)**  
**EEx ia IIC T4 (-55°C ≤ T<sub>amb</sub> ≤ 70°C)**

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

File No: **EECS 0914/02/063**

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  
3 January 2002



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**Schedule**

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**EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX1166X**

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**Description of Equipment or Protective System**

The Model 2088 Smart Pressure Transmitter is designed to convert a pressure signal into a electrical signal.

The apparatus comprises a sensor, three printed circuit boards; the Micro board, the Taconite Sensor board, 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.

The Model 2090 Smart Pressure Transmitter is identical to the Model 2088 except that it uses alternative mechanical arrangements for the process connections.

$U_i = 30V$  d.c.

$I_i = 200mA$

$P_i = 0.9W$

$C_i = 0.012\mu F$

The apparatus must be supplied from a linear (resistive) source.

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**Report No.**

99(C)0120

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**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.

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**Essential Health and Safety Requirements**

ESSENTIAL HEALTH & SAFETY REQUIREMENTS not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 99(C)0120 Clause 5.1.1.3
1.2.2	Components for incorporation or replacement	Report No 99(C)0120 Clause 5.1.2.2
1.2.5	Additional means of protection	Report No 99(C)0120 Clause 5.1.1.5
1.2.7	Protection against other hazards	Report No 99(C)0120 Clause 5.1.2.7
1.4.2	Withstanding attack by aggressive substances	Report No 99(C)0120 Clause 5.1.4.2



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**Schedule**

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**EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX1166X**

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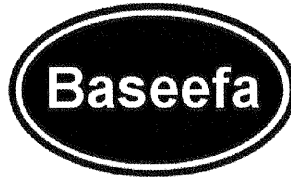
**DRAWINGS**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
02088-1109	1 to 3	AC	12.11.01	Approval Drawing
02088-1119	1 to 3	AC	10.7.98	Module Housing
02088-1120	1	AB	8.7.01	Terminal Block Schematic
03031-0214	1 to 3	AA	10.23.97	Filter, RFI
03031-0581	1 to 3	AC	7.16.97	Schematic, Microboard 5
03031-0582	1 to 3	AD	7.17.00	PWB, Microboard 5
03031-0584	1 to 4	AJ	2.28.01	Assembly, Microboard 5
03031-0589	1	A	1.31.95	Schematic, LCD Board
03031-0590	1 to 4	AB	8.23.01	PWB, LCD Board
03031-0591	1 to 3	AF	6.19.00	Assembly, LCD Board
03031-0926	1 to 3	AE	4.1.01	Schematic, Taconite Sensor Board
03031-0927	1 to 3	AF	5.25.01	PWB, Taconite Sensor Board
03031-0929	1	AJ	4.1.01	CCA, Taconite Sensor Board

The above drawings are associated with Certificate No. BAS00ATEX3167X

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BASEEFA List Keywords  
2TRANSMI



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: **BAS00ATEX1166X/1**

4 Equipment or Protective System: **MODEL 2088 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. BAS00ATEX1166X 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

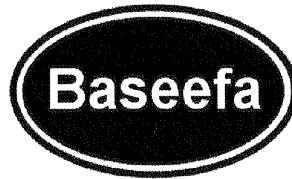
This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**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 BAS00ATEX1166X/1**

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

**Variation 1.1**

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.