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EC-TYPE EXAMINATION CERTIFICATE

2

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

3

EC-Type Examination Certificate Number : **BAS02ATEX1163X**

4

Equipment or Protective System: **ROSEMOUNT SERIES 3300 GUIDED WAVE RADAR,
LEVEL AND INTERFACE TRANSMITTER**

5

Manufacturer: **SAAB MARINE ELECTRONICS AB**

6

Address: **Box 13045, S-402 51 Göteborg, Sweden**

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°

01(C)0839 dated 27 May 2002

9

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.

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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.

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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 (-50°C ≤ T_a ≤ +70°C)

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

File No: **EECS 2684/02/006**

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
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**I M CLEARE
DIRECTOR
31 May 2002**



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX1163X

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Description of Equipment or Protective System

A Rosemount Series 3300 Guided Wave Radar, Level and Interface Transmitter is a Smart, 2-Wire continuous level transmitter which uses Time Domain Reflectometry. The transmitter may use different versions of the guided transmission line probes such as Rigid Twin Lead, Twin & Mono Flexible Cable and Coaxial, all of various lengths.

The Rosemount Series 3300 consists of three models:

1. Type 3301 for the detection of level
2. Type 3302 for the detection of the interface and level
3. Type 3303 for the detection of the interface

The apparatus consists of terminal block PCB, a feed through filter, a Connection Board PCB, two main printed circuit boards (Micro and Signal PCB), and an optional liquid crystal display (LCD), all housed in an aluminium or stainless steel enclosure. The Probe Seal is a mechanical arrangement for fixing either a rigid or flexible wave guide.

The loop connections, marked '+' and '-' may also be used for serial data communications.

Terminals '+' and '-'

$$U_i = 30V$$

$$I_i = 130mA$$

$$P_i = 1W$$

$$C_i = 0$$

$$L_i = 0$$

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Report No.

BASEEFA Certification Report No. 01(C)0839 dated 27 May 2002.

17

Special Conditions For Safe Use

The apparatus is not capable of withstanding the 500V test as defined in Clause 6.4.12 of EN 50020. This must be considered during installation.

18

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	See Report No. 01(C)0839
1.2.2	Components for incorporation or replacement	See Report No. 01(C)0839



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Schedule

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Clause	Subject	Compliance
1.2.5	Additional means of protection	See Report No. 01(C)0839
1.2.7	Protection against other hazards	See Report No. 01(C)0839
1.4.2	Withstanding attack by aggressive substances	See Report No. 01(C)0839

19 DRAWINGS

Number	Sheets	Issue	Date	Description
9150077-921	1 & 2	1	02.19	General arrangement
9150077-933	1	1	01.35	Block Diagram
01151-0977	1	D	07/18/94	Terminal Block Schematic
01151-0978	1 to 3	AA	06/16/98	Terminal Block PCB Details
01151-0979	1 & 2	B	05/30/95	Terminal Block Assembly
9150077-912	1	1	01.35	Connection Board
9150077-910	1 to 5	1	01.35	Micro Board PCB Details
9150077-911	1 to 5	1	01.35	Signal Board PCB Details
03031-0589	1	A	01/31/95	LCD PCB Assembly
03031-0590	1 to 4	AB	08/23/01	LCD PCB Details
03031-0591	1 to 3	AG	11/13/01	LCD PCB assembly
9150077-927	1	1	02.18	Certification Label Drawings

Drawings dated 01.35 etc. are based on yy.ww

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

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 **BAS02ATEX1163X/1**
Number :

4 Equipment or protective system: **ROSEMOUNT SERIES 3300 GUIDED WAVE RADAR,
LEVEL AND INTERFACE TRANSMITTER**

5 Manufacturer : **SAAB MARINE ELECTRONICS AB**

6 Address : **Box 13045, S-402 51Göteborg, Sweden**

7 This supplementary certificate, issued by Baseefa (2001) Ltd., Notified Body Number 1180, extends EC - Type Examination Certificate No. BAS02ATEX1163X 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 Electrical Equipment Certification Service, Notified Body Number 0600, retains responsibility for its original documentation. Baseefa (2001) Ltd. is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. 2684

Project File No. 02/0196

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 black ink, appearing to read "R S Sinclair".

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

Baseefa (2001) Ltd.

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Derbyshire, SK17 9BJ



Schedule

Description of the variation to the Equipment or Protective System

Variation 1.1

To permit label information changes.

Report No.

None

Special Conditions for Safe Use

See original

Essential Health and Safety Requirements

See original

Drawings and Documents

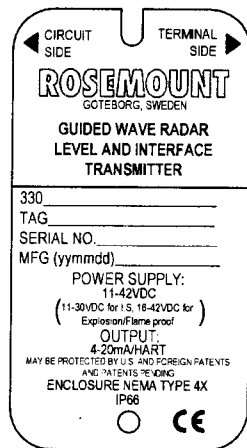
Number	Issue	Date	Description
9150077-927	2	02.36	Certification Label Drawings

ISSUE	MODIF. ORDER NO.	WEEK	ISSUE	MODIF. ORDER NO.	WEEK	ISSUE	MODIF. ORDER NO.	WEEK
1	SME-2920	0218	2	SME-3019	0236			

BAS02ATEX1163X/1

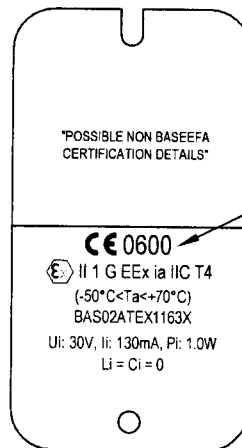
M. Pearson

NAME PLATE



ALTERNATIVELY:
CHANHASSEN, MINNESOTA

APPROVAL LABEL



Notified Body Number
may be changed.

EX-CERTIFIED PRODUCT
No modification permitted
without reference to Ex-
certifying Authorities.

- ① MATERIAL/MARKING METHOD: METALLIZED POLYESTER FILM WITH ACRYLIC ADHESIVE (BRADY B-428)/ THERMAL TRANSFER PRINTED. LABEL MOUNTED ON A LABEL FIXING PLATE (STAINLESS STEEL OR ALUMINIUM max 6% Mg). THE LABEL FIXING PLATE MOUNTED WITH RIVETS TO ENCLOSURE.

9150077-927	ISSUED BY GU-HF	WEEK 0218	PRODUCT CODE 3300		MATERIAL		
	APPROVED BY GU-PO	WEEK 0218	DOC. TYPE 6	FILE ACAD	TITLE CERT. DWG LABELS, BAS ROSEMOUNT SERIES 3300		
	ALL DIMENSIONS ARE IN MILLIMETRES. TOLERANCES, UNLESS OTHERWISE STATED: FOR MACHINING: ISO 2768 mK FOR CASTING: ISO 8062 CT10 FOR WELDING: SS-EN ISO 13920 A			FINISH, UNLESS OTHERWISE STATED: 6.3 ✓	DWG NO. 9150077-927	ISSUE 2	SHEET 1/1
	SAAB ROSEMOUNT		1 ST ANGLE 	SCALE 1:1	THE COPYRIGHT/OWNERSHIP OF THIS DOCUMENT IS AND WILL REMAIN OURS. THE DOCUMENT MUST NOT BE USED WITHOUT OUR AUTHORIZATION OR BROUGHT TO THE KNOWLEDGE OF A THIRD PARTY. CONTRAVENTION WILL BE PROSECUTED. SAAB MARINE ELECTRONICS AB.		