IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx FMG 09.0009X	Issue No: 5	Certificate history:
Status:	**Current**	Page 1 of 4	Issue No. 5 (2014-03-25) Issue No. 4 (2013-12-11) Issue No. 3 (2013-11-15) Issue No. 2 (2010-08-23) Issue No. 1 (2010-03-19) Issue No. 0 (2010-02-22)
Date of Issue:	**2014-03-25**		
Applicant:	**Rosemount Tank Radar AB** Gamlestadsvägen 18B GÖTEBORGSE-40251 **Sweden**		
Electrical Apparatus:	**MODEL 5900 Radar Level Gauge**		
Optional accessory:			
Type of Protection:	**Intrinsically Safe**		
Marking:	FISCO: Ex ia IIC Ga/Gb IP66, IP67 Entity: Ex ia IIC Ga/Gb IP66, IP67 Tamb = -50?C to 80?C		

Approved for issue on behalf of the IECEx Certification Body: J. E. Marquedant

Position: Manager, Electrical Systems

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America

FM APPROVED

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Manufacturer:	**Rosemount Tank Radar AB** Gamlestadsvägen 18B GÖTEBORGSE-40251 **Sweden**	
Additional Manufacturing location(s):		

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

US/FMG/ExTR09.0018/00	US/FMG/ExTR09.0018/01	US/FMG/ExTR09.0018/02
US/FMG/ExTR09.0018/03	US/FMG/ExTR09.0018/04	US/FMG/ExTR09.0018/05

Quality Assessment Report:

NO/DNV/QAR07.0007/00

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

5900abcdefghijklmno. Radar Level Gauge. *Energy Limitation Parameters: Ui = 30V, Ii = 300mA, Pi = 1.3W, Ci = 1.1nF, Li = 1.5µH. FISCO Limitation Parameters: Ui = 17.5V, Ii = 380mA, Pi = 5.32W, Ci = 1.1nF, Li = 1.5µH. a = Performance: Any two characters. b = Safety Certification: Any single character. c = Redundancy: 2, F, 1 or Z. d = Communication: F or Z. e = Certification: I7, KC, KE, KF or ZZ. f = Custody Transfer Type Approval: Any single character. g = Level Measurement: Any single character. h = Housing: A, S or Z. i = Cable/Conduit Connections: 1, 2, G, E, M or Z.*

j = Antenna:	1A	1P	1H	G1 or G2	1C	1F	11	12	ZZ
k = Antenna Size:	5, 6, 8, or B	AF or X	8 or X	A, B, D or X	3, 4, 6, 8, A or X	4, 6, 8, or X	A2, 0, 3, or X	43, 4, 6, or X	8Z
l = Antenna Material:	S	S	S	S	S, H, T, MS or Y		S	S	Z
m = Tank Seal:	FF or HH	PF	PV	QA	PV, QV or QK	PK, PV, QV or QK	PK, PV, QV or QK	PK, PV, QV or QK	PK, ZZ
n = Tank Connection:	5A, 8A, BA, LA, MB or XX	6A, AA, KA, WE or CL	8A, LA, LZ or XX	8Z, 4A, 4C, 6B, 8A, 8B or XX	4B, 3A, 6A, 4A, 6C, 6A, 8A, AA, IA, IB, JA, JB, KB, LB, 00 or XX	3B, 4A, 4B, 6B, 4X, 8B, 8X, BA, JA, KA, JX, LA, LX, 00 or XX	6A, 2A, AA, 3A, 6X, 4A, AX, HB, KA, IB, MB, JB, KX, XX, MX, 00 or XX	2B, 3A, 3B, 4A, 4B, 6A, 6B, 8A, 8B, IA, IB, JA, JB, KB, LB, 00 or XX	3B, ZZ, 4B, 6B, 8B, JA, KA, LA, 00 or XX
o = Special:	0, C or X	0 or X	0 or X	0, V or X	0, 1, 2, 30 or X or X		1 or X	0, 1, 2, 3, 4 or X	Z

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction. 2. Parabolic and Array antennas with plastic surfaces may, under certain extreme conditions, generate an ignition-capable level of electrostatic charge for IIC applications. Therefore, when these antennas are used in EPL Ga, Group IIC, appropriate measures must be taken to prevent electrostatic discharge. 3. Ga/Gb notation: The Rosemount 5900 Radar Level Gauge was evaluated so that an [ib] associated apparatus can connect to it restricting the installation of the electronics to a Zone 1 location while still allowing the antenna to enter a Zone 0 location.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Drawing 9240040-946 changed from rev 2 to rev 3. Additional coating materials added to drawing.