

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx FMG 09.0009X	Page 1 of 4	Certificate history:			
Status:	Current	Issue No: 12	lssue 11 (2021-07-22) lssue 10 (2021-05-04)			
Date of Issue:	2022-01-10		lssue 9 (2020-07-30) Issue 8 (2019-12-10)			
Applicant:	Rosemount Tank Radar AB Layoutvägen 1 Mölnlycke, 43533 Sweden		Issue 7 (2019-09-24) Issue 6 (2019-03-27) Issue 5 (2014-03-25) Issue 4 (2013-12-11) Issue 3 (2013-11-15)			
Equipment:	MODEL 5900 Radar Level Gauge		Issue 2 (2010-08-23)			
Optional accessory:						
Type of Protection:	Intrinsically Safe					
Marking:	Ex ia IIC T4 Ga Ex ib IIC T4 Ga/Gb Tamb = -50°C to +80°C					
	IP66, IP67					
Approved for issue o Certification Body:	n behalf of the IECEx	J. E. Marquedant				
Position:		VP, Manager - Electrical Systems				
Signature: (for printed version)						
Date:						
 This certificate and s This certificate is no The Status and auth 	schedule may only be reproduced in full. t transferable and remains the property of the issuing body enticity of this certificate may be verified by visiting www.ie	ccex.com or use of this QR Code.				
Certificate issued	l by:					
FM Approvals L 1151 Boston-Pr	LC ovidence Turnpike		< FM Approvals [®]			
Norwood, MA 02	2002 f America		Harden dels PM Chevel Comm			



Test Reports.

US/FMG/ExTR09.0018/00 US/FMG/ExTR09.0018/03 US/FMG/ExTR09.0018/06 US/FMG/ExTR09.0018/09 US/FMG/ExTR09.0018/12 US/FMG/ExTR09.0018/01 US/FMG/ExTR09.0018/04 US/FMG/ExTR09.0018/07 US/FMG/ExTR09.0018/10 US/FMG/ExTR09.0018/02 US/FMG/ExTR09.0018/05 US/FMG/ExTR09.0018/08 US/FMG/ExTR09.0018/11

Quality Assessment Report:

NO/PRE/QAR15.0014/04



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

See Attachment to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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1. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. When installed as EPL Ga, care must be taken during installation and use to prevent impact or friction.

2. Non-metallic surfaces and the surface of the painted housing may, under certain extreme conditions, generate an ignition-capable level of electrostatic. Appropriate measures must be taken to prevent electrostatic discharge.

3. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.

4. When installed as Ex ib Ga/Gb, the partition wall materials separating EPL Ga from EPL Gb are constructed of different materials depending on the antenna option. Please refer to Control Drawing D9240040-917 for the material type of each antenna. The material shall not be subject to environmental conditions which might adversely affect the partition wall.

5. Maximum Process temperatures are as follows:

When Option n = Tank Seal:	O-Ring Type	Min/Max Process Temperature Range
PV or QV	Viton	-15°C to +180°C
PK, FK, HK or QK	Kalrez	-20°C to +230°C
PE or QE	EPDM	-40°C to +110°C
PB or QB	BUNA-N	-35°C to +90°C
PM, FF, HH or QM	FVMQ	-60°C to +155°C
PF or QF	FEP	-60°C to +180°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Documentation Updates

Annex:

Attachment to certificate IECEx FMG 09.0009X.pdf

Attachment to IECEx FMG 09.0009X Certificate

Equipment and Systems Covered by this Certificate

5900abcdefghijklmnop. 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 = 1.5μ H.

a = Product Description: C or S

b = Performance: Any single character.

c = Safety Certification: Any single character.

d = Redundancy: 2, F, 1 or Z.

e = Communication: F or Z.

f = Certification: I7, KC, KE, KF or ZZ.

g = Custody Transfer Type Approval: Any single character.

h = Level Measurement: Any single character.

i = Housing: A, S or Z.

j = Cable/Conduit Connections: 1, 2, G, E, M or Z.

k =	Antenna	1 A	1P	1H	G1	10	1F	11	12	77
	lincenna				G_{2} or	10			12	
					CA					
	Antonno Cizo.		ForV	0 or V		210	1 (0	202	210	7
$\mu = F$	Antenna Size:	5, 6, 8,	FOLX	8 0F X	А, В, Л	3, 4, 0,	4, 6, 8,	2, 0, 3,	3, 4, 0,	L
		A or B			or X	8, A or	A or X	4 or X	8 or X	
		-	-			X	-			
m=	Antenna Material:	S	S	S	S	S, H, T,	S	S	S	Z
						M or Y				
n = T	'ank Seal:	FF,	PF, PK	PV	QA, PT	PV,	PV,	PV,	PV,	ZZ
		HH,				PK, QV	PK, QV	PK, QV	PK, QV	
		FK or				or QK	or QK	or QK	or QK	
		НК								
o =	Tank Connection:	5A,	WE or	8A, 8Z,	1B,	3A,	4A,	2A,	3A,	ZZ
		6A,	CL	LA, LZ	2A,	3B,	6A,	2B,	3B,	
		8A,		or XX	2B,	4A,	8A,	3A,	4A,	
		AA,			3A,	4B,	AA,	3B,	4B,	
		BA,			3B,	4T, 6T,	4X, 6X,	4A,	6A,	
		KA.			4A.	8T.	8X.	4B.	6B.	
		LA.			4B. 4C.	6A.	AX. IA.	HB. IA.	8A.	
		MB or			6A.	6B.	KA.	IB. IA.	8B. IA.	
		XX			6B, 6C.	8A.	LB.	IB. 00	IB. IA.	
					8A.	8B.	MB. IX	or XX	IB. KA	
					8B.	AA,	ΚΧ,		KB.	

					NA,	BA, IA,	LX,		LA,	
					OA,	IB, JA,	MX, 00		LB, 00	
					PA, PB	JB, JT,	or XX		or XX	
					or XX	KA,				
						KB,				
						KT,				
						LA,				
						LB,				
						MT,				
						00 or				
						XX				
p =	Special:	0, C,	0, V or	0, V or	0, V or	0, 1, 2,	0 or X	1 or X	0, 1, 2,	Z
		V or X	Х	Х	Х	3 or X			3, 4 or	
									Х	