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 TUR 16.0014X	Issue No: 1	Certificate history:
			Issue No. 1 (2016-11-02)
Status:	**Current**	Page 1 of 5	Issue No. 0 (2016-06-09)
Date of Issue:	**2016-11-02**		

Applicant: **Flowline, Inc.**
10500 Humbolt Street
Los Alamitos, CA 90720 USA
United States of America

Equipment: **Pulse Radar Level Instrument LR11/16/21/26/31/36/41/46 Series**
Optional accessory:

Type of Protection: **Ex ia**

Marking:
Ex ia II C T6...T3 G a

Ex ia IIIC T76°C ...T146°C Da

Approved for issue on behalf of the IECEx Certification Body: Dipl.-Ing. Geoffrey Stenzel

Position: Assigned certifier

Signature:
(for printed version)

Date: 02. 11. 2016

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

TÜVRheinland®

IECEx Certificate of Conformity

Certificate No:	IECEx TUR 16.0014X	Issue No: 1
Date of Issue:	**2016-11-02**	Page 2 of 5
Manufacturer:	**Flowline, Inc.** 10500 Humbolt Street Los Alamitos, CA 90720 USA **United States of America**	

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"

*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:

DE/TUR/ExTR16.0014/01

Quality Assessment Report:

DE/TUR/QAR16.0007/00

IECEx Certificate of Conformity

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type
The LR11/16/21/26/31/36/41/46 series pulse radar level instrument is an intrinsic safety explosion proof version (II 1 G Ex ia IIC T6...T3 Ga and II 1 D Ex ia IIIC T76°C...T146°C Da) and consist the power supply and signal converter electronics with stainless steel housing or plastic enclosure. All electric circuits are fully encapsulated in the internal enclosure, where no conductive parts are exposed to flammable gas. The output signal is analogue 4...20mA and/or digital HART.

Technical data
Ui=26.4V
Ii=114mA
Pi=0.752W
Ci=0
Li=51uH

For thermal data see additional page "Equipment (continued)".

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The pulse radar level instrument operate only according the technical data in intrinsically safety circuit.
2. Warning: POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTION
3. The temperature class depends on the maximum ambient temperature and medium temperature, as following table:

Temperature class	Ambient temperature
T6	- 2 0 ... + 60°C
T5	- 2 0 ... +70°C
T4	- 2 0 ... +85°C
T3	- 2 0 ... +85°C

4. The pulse radar level instrument shall be used with suitable certified cable glands and block plugs

5. The installation of the equipment shall be in conformity with IEC 60079-14: latest edition or national equivalent Standard.

IECEx Certificate of Conformity

Certificate No: IECEx TUR 16.0014X Issue No: 1

Date of Issue: **2016-11-02** Page 4 of 5

EQUIPMENT (continued):

	Max. process temperature			
Temperature class Ta(max)	T6	T5	T4	T3-T1
60°C	60°C	95°C	130°C	180°C
65°C	------	70°C	130°C	180°C
70°C	------	70°C	130°C	180°C
85°C	------	------	130°C	180°C

IECEx Certificate of Conformity

Certificate No:	IECEx TUR 16.0014X	Issue No: 1
Date of Issue:	**2016-11-02**	Page 5 of 5

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

Add new types LR36, LR41 and LR46.