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 UL 11.0041X	Issue No: 3	Certificate history:
			Issue No. 3 (2017-04-25)
Status:	**Current**	Page 1 of 4	Issue No. 2 (2014-10-15)
			Issue No. 1 (2013-10-24)
Date of Issue:	**2017-04-25**		Issue No. 0 (2011-10-25)

Applicant: **Ametek Automation & Process Technologies**
6380 Brockway Rd.
Peck, MI 48466
United States of America

Equipment: **Liquid Level Probe, Models 7100M, 7100R, 7100K, 7100V**

Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking:

Ex ia IIB T4 (Models 7100M, 7100R)
Ex ia IIA T4 (Models 7100K, 7100V)

-40ºC to +70ºC

Approved for issue on behalf of the IECEx Certification Body: Andrew Moffat

Position: Associate Project Engineer

Signature:
(for printed version)

Date: 2017-04-25

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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Manufacturer:	**Ametek Automation & Process Technologies** 6380 Brockway Rd. Peck, MI 48466 **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"
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/UL/ExTR11.0047/03

Quality Assessment Report:

NO/DNV/QAR13.0011/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The device is permanently mounted liquid level probe powered by an associated apparatus. It determines the level of liquid based on signal reflections, caused by magnetic floats, in a wire running the length of the probe. These devices also take liquid temperature measurements using thermistors located in the probe tubes. These signals are amplified and processed, then relayed via a signal imposed on the input wires to the probe. The probe body and tube may be constructed of stainless steel or of PVDF polymer.

See Annex for Nomenclature details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Warning: To avoid ignition hazard due electrostatic discharge clean only with a damp cloth.

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

Issue 1: Updated to the latest editions of the applicable standards.

Issue 2: Replaced existing QAR issued by CSA with new QAR issued by DNV.

Issue 3: Documentation updates to indicate RoHS compliance and update the Notified Body number: 2460.

Annex:

Annex to IECEx UL 11.0041X Issue 3.pdf

Nomenclature for type: aaaa-b-ccc-dd-e-ff-gggg*:*

aaaa = Product Series
- 7100 = 7100 Pulse Position Modulated Scheme

b = Material
- M = Stainless Steel Tube with Mini Connector
- R = Stainless Steel Tube with right angle threaded connector
- K = Flexible Kynar Tube with threaded connector and Nylon tube coupling
- V = Flexible Kynar Tube with threaded connector

ccc = Span size
- 000-999 = number of inches

dd = Number of thermistors
- R1 = one
- R2 = two
- R3 = three
- R4 = four
- R5 = five
- T1 = one

e = Mounting method
- C = compression fitting
- B = fixed bottom
- R = Replacement Probe
- X = standard

ff = Number of floats
- F1 = one
- F2 = two

gggg = Overall length of probe
- L000-L999 = number of inches