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 16.0147X	Issue No: 0	Certificate history: Issue No. 0 (2016-11-29)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2016-11-29**		

Applicant: **Tuthill Transfer Systems**
8825 Aviation Drive
Fort Wayne, IN 46809
United States of America

Equipment: **Intrinsically Safe Flowmeter-TT10 Series TT10A and TT10P turbine flowmeters**

Optional accessory:

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

Marking:

Ex ia IIA T4 Ga

-40°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx Certification Body: Paul T. Kelly

Position: Principal Engineer - Global Hazardous Locations

Signature: (for printed version)

Date: 2016-11-29

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:	**Tuthill Transfer Systems** 8825 Aviation Drive Fort Wayne, IN 46809 **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:

US/UL/ExTR16 0173/00

Quality Assessment Report:

US/FMG/QAR07 0002/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TT10 Series Turbine Flowmeters TT10A and TT10P are fixed installation, intrinsically safe electronic meters to be used in hazardous Locations to measure fluid flow. The TT10 Series Turbine Flowmeters are powered by two alkaline (Zinc-Manganese Dioxide) size AA battery cells, Part numbers MN1500 or QU1500 manufactured by Duracell or E91 manufactured by Energizer. The TT10 Series Turbine Flowmeters contain a rubber impact boot covering an electronic module, which mounted on meter body. Meter body for Model TT10A is made of aluminium; Meter body for Model TT10P is made of polypropylene. Other than meter body material, TT10A and TT10P are identical.

CONDITIONS OF CERTIFICATION: YES as shown below:

Piping and hoses connected to the meter must be properly grounded when metering or using near flammable fluids.

To avoid build-up of electrostatic discharge, please clean with a damp cloth only.

The meter body is made of aluminium alloy. Avoid impact or friction on meter body to prevent spark.