

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 CES 13.0021X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2013-11-11	Page 1 of 4	
Applicant:	Piusi S.p.A. Via Antonio Pacinotti, 16A I-46029 Suzzara (MN) Italy		
Electrical Apparatus: Optional accessory:	Electronic turbine meters	s K24, model F00408 N NN	
Type of Protection:	Intrinsic Safety "ia"		
Marking:	Ex ia IIB T4 Gb		
Approved for issue on behalf of the IECEx Certification Body:		Mirko Balaz	
Position:		Head of IECEx CB	
Signature: (for printed version)			
Date:			
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Certificate issued by:	CESI		

Centro Elettrotecnico Sperimentale Italiano S.p.A. Via Rubattino 54 20134 Milano Italy





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Manufacturer: Piusi S.p.A.

Via Antonio Pacinotti, 16A I-46029 Suzzara (MN)

Italy

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 Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-11: 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

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:

IT/CES/ExTR13.0022/00

Quality Assessment Report:

IT/CES/QAR12.0004/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The electronic turbine meters **K24** are apparatus, designed and manufactured, for digital and bi-directional low viscosity liquids measurement. The **K24** compatible liquids are: diesel fuel, kerosene, gasoline. The **K24** series meters are connected directly to the pipes, they are manufactured in two versions: **Meter** (for direct measurement with LCD display); **Pulser** (for remote measurement). The **Meter** version has self-powered by a Lithium battery pack; the **Pulser** version via certified barrier.

The housing of the **K24** apparatus is made of aluminum with two protective rubber guards, a plastic display cover and stainless steel back closure. The degree of protection of the equipment is IP65.

Electrical characteristics

Version K24 Meter: lithium battery pack cod. PIUSI 018021000 (VARTA CR 1/2 AA - 3V; 950mAh)

Version **K24 Pulser**: Ui = 12 V, Ii = 100 mA, Pi = 0.3 W

Tamb.: from -10℃ up to +50℃

The **K24 Pulser** shall be supplied and interfaced with certified apparatus according to IEC 60079-0 and IEC 60079-11 complying with the limits of the above electrical characteristics.

CONDITIONS OF CERTIFICATION: YES as shown below:

- The conditions of the installation, use and maintenance of the **K24** meters, are included within the Safety Instruction. For a safe use these Instruction are to be followed precisely.
- Use only low viscosity compatible liquids.
- Replace the internal battery pack in a non-hazardous area, and exclusively with PIUSI model n.018021000
- The complementary parts of the **K24** meters system such as pipes, nozzle, etc. shall guarantee the continuity of the ground connection.



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EQUIPMENT(continued):

K24 equipment Identification

The K24 meters are characterized by the following code: F00408 N NN

F00408 - Electronic turbine meter K24

- X Meter version ATEX or IECEx certificated
 - Y Pulser version ATEX or IECEx certificated
 - U Meter version UL certificated
 - Z Pulser version UL certificated
 - other letters version not covered by any certification

- (alphanumeric) not safety relevant; eg. inlet and outlet thread of connection pipes (BSP or NPT), color of the front cover, ecc.

Warning labels

Adhesive label on equipment enclosure: !WARNING!

ALUMINIUM BODY: AVOID IGNITION DUE TO IMPACT OR FRICTION SUBSTITION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY

Adhesive label on the battery pack PIUSI 018021000:
To reduce the risk of ignition of a flammable or explosive atmosphere, batteries must only be changed in a location be non-hazardous.

To prevent ignition of flammable or combustible atmosphere, disconnect power before servicing