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Schema di certificazione

CESI-ATEX

ACCREDIA
ENTE ITALIANO DI ACCREDITAMENTO

PRD N. 018B
Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

CERTIFICATE



EC-TYPE EXAMINATION CERTIFICATE

- [1] **EC-TYPE EXAMINATION CERTIFICATE**
- [2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- [3] **EC-Type Examination Certificate number:**
CESI 13 ATEX 049X
- [4] **Equipment:** Electronic turbine meter K24
model F00408 N NN
- [5] **Manufacturer:** PIUSI S.p.A.
- [6] **Address:** Via Pacinotti, 16/A 46029 – Suzzara (MN) - Italy
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report n. EX-B3024578.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012 EN 60079-11:2012**
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- [12] The marking of the equipment or protective system shall include the following:

II 2G Ex ia IIB T4 Gb

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 30.09.2013 - Translation issued the 30th.09.2013

Prepared
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Verified
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CESI S.p.A.

Testing & Certification Division

Business Area Certification

Responsabile

Fiorenzo Bregani

[13]

Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE n. CESI 13 ATEX 049X

[15] Description of equipment

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** meters are connected directly to the pipes, they are manufactured in two versions: **Meter** (for direct measurement with LCD display), **Pulser** (for remote measurement).

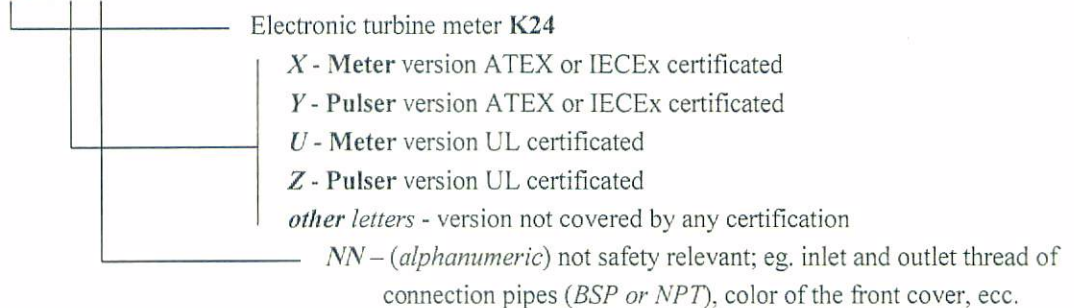
The **Meter** version has self-powered by a Lithium battery pack; the **Pulser** version via certified barrier.

The housing of the **K24** series 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

K24 equipment Identification

K24 meters are characterized by the following code:

Eg. F00408 N NN



Electrical characteristics

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

Version **K24 Pulser**: $U_i = 12\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 0.3\text{ W}$

Tamb.: from -10°C up to $+50^\circ\text{C}$

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

Warning label

Adhesive label on equipment enclosure:

!WARNING!

ALUMINIUM BODY: AVOID IGNITION DUE TO IMPACT OR FRICTION

SUBSTITUTION 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.

This certificate may only be reproduced in its entirety and without any change, schedule included.

Schedule

[13]

[14] **EC-TYPE EXAMINATION CERTIFICATE** n. CESI 13 ATEX 049X

[16] **Report n.** EX-B3024578

Descriptive documents (prot. EX-B3024581)

Technical Note <i>TECHNICAL FILE FOR IECEx AND ATEX DIRECTIVE</i> n. MT K24 rev.00, pg.26	dated 02.09.2013
Safety Instruction n. M023 rev.00, pg.7	dated 02.09.2013
Drawing <i>Battery technical drawing</i> n. EX018, rev.00, pg.2	dated 27.09.2013
Drawing <i>Electronic board meter version</i> n. EX19, rev.00, pg.5	dated 01.08.2013
Drawing <i>Electronic board pulser version</i> n. EX020, rev.00, pg.1	dated 01.08.2013
Drawing <i>Assembly K24 Meter</i> n. EX021 rev.00, pg.1	dated 30.08.2013
Drawing <i>Assembly K24 pulser</i> n. EX022 rev.00, pg.1	dated 30.08.2013
Drawing <i>PCB Meter version GERBER</i> n. EX023, rev.00, pg.1	dated 02.07.2013

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

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.

[18] **Essential Health and Safety Requirements**

Assured by compliance to the standards.