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- (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: **ISSeP12ATEX010X**
- (4) Equipment : Flow transmitter  
Model TA2
- (5) Applicant – Manufacturer :  
Magnetrol International N.V.
- (6) Address: Heikensstraat 6  
9240 Zele
- (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) ISSeP, notified body n° 492 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 no 10027
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0:2009 (IEC 60079-0:2007) EN 60079-1:2007 (IEC 60079-1:2007)  
EN 60079-11:2007 (IEC 60079-11:2006) EN 60079-26:2007 (IEC 60079-26:2006)
- (10) If the symbol "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 this Directive may 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 indications:  
 II 1/2 G Ex d+ ib / d [ib] IIC T4 or T3 Ga / Gb

Colfontaine, 10.04.2012

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M. Lambert  
Director

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

(13)

## SCHEDULE

(14)

### EC TYPE EXAMINATION CERTIFICATE No ISSeP12ATEX010X

(15)

Description of the equipment:

Thermatel TA2 mass flow transmitter.

The flameproof housing of this apparatus, available in two versions, is made of aluminium alloy or stainless steel.

The integral version consists of a enclosure with two compartments on which two covers are screwed. One of the covers is provided with a window.

The measuring probe is screwed on the central part of this housing by means of a threaded adapter and an extension tube (optional)

The remote version consists of an enclosure with one compartment of which the probe is screwed at the bottom. This housing contains only the remote board with terminal blocks.

Each housing shall be equipped with certified Ex d IIC cable entries

The unused threaded holes shall be plugged with certified threaded plugs

This apparatus bears the type designation:

T A 2 - A \* \* 0 - \* \* \*

Signal output \_\_\_\_\_

Display \_\_\_\_\_

Calibration \_\_\_\_\_

Housing \_\_\_\_\_

Enclosure type \_\_\_\_\_

#### Eventual prescriptions

- Ambient temperature range: -40°C up to +40°C (temperature class T4) or -40°C up to +70°C (temperature class T3)
- The measuring probe and the extension tube are classified category 1
- The housing is classified category 2

#### Electrical characteristics

100 to 264 VAC 50 or 60 Hz

11.6 to 30 V DC

#### Routine test

The manufacturer shall make the routine verifications and tests necessary to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype.

The housings are exempted from the overpressure routine test. However the extension tube shall be submitted to an overpressure test of 2000 kPa (20 bar) maintained during at least 10 seconds.

## SCHEDULE

### EC TYPE EXAMINATION CERTIFICATE No ISSeP12ATEX010X

- (16) Report no 10027 of 29.03.2012 composed in total of 33 pages.  
The installation and operating manual Ref. BE 54-631.0 of March 2011 (52 pages)  
The drawings  
99-7198 of 1.10.2001 Rev F of February 2011 (4 sheets)  
750312091 of 20.12.2010 (2 sheets)  
750312687 Rev.00 of 17.10.2011 (2 sheets)  
009-6229 Rev.C of 14.10.2011 (sheet 2)  
009-6230 Rev.C of 28.06.2011  
094-1845 Rev.D of 13.07.2011 (2 sheets)  
030-3611 Rev.E of 13.07.2011 (3 sheets)  
09-9349-001 Rev.D signed on 19.08.2011 (6 sheets)  
094-1846 Rev.D of 6.06.2011 (2 sheets)  
030-3612 Rev.F of 6.06.2011 (4 sheets)  
09-9367-001 Rev.C signed on 15.02.2012 (6 sheets)  
094-1847 Rev.C of 29.09.2011  
030-3613 Rev.C of 29.09.2011 (3 sheets)  
09-9351-001 Rev.E signed on 9.11.2011 (4 sheets)  
094-1848 Rev.A of 12.11.2009  
030-3614 Rev.B of 5.01.2011 (2 sheets)  
09-9352-001 Rev.A signed on 19.08.2011 (4 sheets)  
094-1849 Rev.C of 14.10.2011  
030-3615 Rev.E of 17.10.2011(2 sheets)  
09-9354-001 Rev.C signed on 9.11.2011 (4 sheets)
- (17) Special conditions for safe use: symbol X
- The temperature class of this apparatus may be affected if the temperature of the measured fluid or process exceeds 53°C (for T4) or 115°C (for T3).
  - The values of the flameproof joints are detailed in the drawings listed reference 99-7198
  - The THERMATEL® TA2 shall be connected to a supply of which the short circuit current doesn't exceed 25A or shall be energised via a fuse having a breaking capacity of 1500 A
- (18) Essential Health and Safety Requirements: covered by the standards listed at point 9 and by the descriptive documents of the manufacturer