

CERTIFICATE

(1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **DEKRA 11ATEX0039 X** Issue Number: **1**

(4) Equipment: **Magnetostrictive Level Transmitter Jupiter Model 2..-E...-.....-...**

(5) Manufacturer: **Magnetrol International N.V.**

(6) Address: **Heikensstraat 6, 9240 Zele, Belgium**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 test report number NL/KEM/ExTR08.0014/**.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 : 2009
EN 60079-27 : 2008**

EN 60079-11 : 2007

EN 60079-26 : 2007

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 1 G Ex ia IIC T4 Ga

This certificate is issued on 4 March 2011 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

C.G. van Es
Certification Manager

Page 1/3

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All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0039 X**

Issue No. 1

(15) **Description**

The Magnetostrictive Level Transmitter Jupiter Model 2.-E...-.....-... is used for level detection. Using the principle of magnetostriction and the effect of a magnetic field on the magnetostrictive wire, a fluid level is converted into a 4 - 20 mA current signal with Hart communication or into a digital fieldbus signal.

The maximum probe length is 9,75 m.

The transmitter enclosure provides a degree of protection IP66 as per EN 60529.

Ambient temperature range -40 °C to +70 °C.

Electrical data

Level Transmitter Jupiter Model 24.-E...-.....-... and Model 26.-E...-.....-... and Model 27.-E...-.....-...:

Output/supply circuit (terminals + and -):

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 28,4 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0,84 \text{ W}$; $C_i = 2,2 \text{ nF}$; $L_i = 3 \text{ }\mu\text{H}$.

Level Transmitter Jupiter Model 25.-E...-.....-... and Model 28.-E...-.....-...:

Output/supply circuit (terminals + and -):

in type of protection intrinsic safety Ex ia IIC, suitable for connection to a FISCO fieldbus system in accordance with EN 60079-27, with the following maximum values:

$U_i = 17,5 \text{ V}$; $I_i = 380 \text{ mA}$; $P_i = 5,32 \text{ W}$; $C_i = 3 \text{ nF}$; $L_i = 3 \text{ }\mu\text{H}$.

or

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 28,4 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0,84 \text{ W}$; $C_i = 3 \text{ nF}$; $L_i = 3 \text{ }\mu\text{H}$.

(16) **Test Report**

NL/KEM/ExTR08.0014/**.

(17) **Special conditions for safe use**

Because the enclosure of the Magnetostrictive Level Transmitter Jupiter Model 2.1-E...-.....-... or Model 2.2-E...-.....-... is made of aluminium, if it is mounted in an area where the use of category 1 G apparatus is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0039 X**

Issue No. 1

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report NL/KEM/ExTR08.0014/**.