

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 11ATEX0271 X** Issue Number: **1**

(4) Equipment: **Guided Wave Radar Level Transmitter Eclipse, Model 706-5...-...**

(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/DEK/ExTR11.0116/**.

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

EN 60079-0 : 2009
EN 60079-26 : 2007

EN 60079-1 : 2007
EN 60079-31 : 2009

EN 60079-11 : 2012

(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 1/2 G Ex d [ia] IIC T6...T1 Ga/Gb or
II 1/2 D Ex tb [ia] IIIC T85 °C... T450 °C Da/Db

This certificate is issued on 8 April 2013 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

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0271 X**

Issue No. 1

(15) **Description**

The Guided Wave Radar Level Transmitter Eclipse Model 706-5...-..., connected to intrinsically safe Probe Eclipse Model 7...-...-..., is used for level detection.

Using the Time Domain Reflectometry and Micro Power Impulse Radar Technology, a fluid level is converted into a 4 - 20 mA current with Hart signal or fieldbus signal.

The maximum probe length is 30 m.

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

Ambient temperature range -40 °C to +70 °C for type of protection Ex d;

Ambient temperature range -15 °C to +70 °C for type of protection Ex tb.

Process temperature range -196 °C to +450 °C, depending on the Probe Model.

The relation between the process temperature, the temperature class and the maximum surface temperature is laid down in the following table:

Process temperature [°C]	Temperature class for Group II	Maximum surface temperature for Group III [°C]
< 450	T1	450
< 300	T2	300
< 200	T3	200
< 135	T4	135
< 100	T5	100
< 85	T6	85

Electrical data

With 4 - 20 mA Hart signal:

Supply/output circuit 9 - 36 Vdc, 4 - 20 mA

With Fieldbus:

Supply/output circuit 9 - 32 Vac, 17 mA

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. NL/DEK/ExTR11.0116/**.

(17) **Specific conditions of use**

- The risk of electrostatic discharge shall be minimized at installation, following the directions given in the instructions.
- Contact the original manufacturer for information on the dimensions of the flameproof joints.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0271 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 No. NL/DEK/ExTR11.0116/**.