

(1) **EC-TYPE EXAMINATION CERTIFICATE**

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

(3) EC-Type Examination Certificate Number: **KEMA 99ATEX5014** Issue Number: **3**

(4) Equipment: **Guided Wave Radar Level Transmitter Eclipse Model 70.-5...-... and Probe Eclipse Model 7...-...-...**

(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) KEMA Quality 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 2095467/1.

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

EN 60079-0 : 2006
EN 60079-27 : 2006

EN 60079-15 : 2003
EN 50020 : 2002

EN 60079-26 : 2004

(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 3 (1) G EEx nA [ia] IIC T4 ... T6 or EEx nA [nL] [ia] IIC T4 ... T6
II 1 G EEx ia IIC T4 ... T6

This certificate is issued on 3 December 2007 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.

KEMA Quality B.V.



C.G. van Es
Certification Manager

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Experience you can trust.



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 99ATEX5014**

Issue No. 3

(15) **Description**

Guided Wave Radar Level Transmitter Eclipse Model 70.-5...-... only for connection to 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 a digital fieldbus signal.

The maximum probe length is 25 m.

The transmitter enclosure provides a degree of protection IP 66 as per EN 60529.

Ambient temperature range: -40 °C ... +60 °C for temperature class T6,
-40 °C ... +80 °C for temperature class T4.

Marking

The marking of the Guided Wave Radar Level Transmitter Eclipse shall include the following:

Transmitter:

II 3 (1) G EEx nA [ja] IIC T4 ... T6 or

as FNICO field device:

II 3 (1) G EEx nA [nL] [ja] IIC T4 ... T6

Probe:

II 1 G EEx ia IIC T4 ... T6

Electrical data

4-20 mA current with Hart signal:

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

Digital Fieldbus signal:

Supply/output circuit 9 - 36 Vdc, 14 mA

or

for connection to a fieldbus in accordance with FNICO per EN 60079-27, with the following maximum values:

$$U_i = 36 \text{ V}$$

$$C_i = 3 \text{ nF}$$

$$L_i = 3 \text{ } \mu\text{H}$$



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 99ATEX5014**

Issue No. 3

(16) **Test Report**

KEMA No. 2095467/1.

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

None.

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

Assured by compliance with the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2095467/1.