

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: **KEMA 03ATEX1447 X**

Issue Number: **2**

(4) Equipment: **Radar Level Transmitter Model Pulsar Rx5**

(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/ExTR11.0026/**.

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

EN 60079-0 : 2009

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 15 June 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 1/2

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 03ATEX1447 X**

Issue No. 2

(15) **Description**

The Radar Level Transmitter Model Pulsar Rx5 measures the level of the fluid using a microwave beam. The output signal is a 4 - 20 mA current signal with digital communication (HART). The antenna is a horn or a dielectric rod type. The transmitter is provided with a display for local read-out and configuration.

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

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

Electrical data

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:
 $U_i = 28,4 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0,84 \text{ W}$; $C_i = 2,2 \text{ nF}$; $L_i = 430 \text{ }\mu\text{H}$.

(16) **Test Report**

NL/DEK/ExTR11.0026/**.

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

Because the enclosure of the Radar Level Transmitter Model Pulsar Rx5 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.

The transmitter's antenna shall be installed so, that electrostatic discharges are prevented.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report NL/DEK/ExTR11.0026/**.