

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 10ATEX0199 X** Issue Number: **1**

(4) Equipment: **Magnetic Level Gauge Pointer Type D-..., Type F-..., Type L-... and Type R-...**

(5) Manufacturer: **Hadro Techniek B.V**

(6) Address: **Westbaan 270, 2841 MC Moordrecht, The Netherlands**

(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 213858700.

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

EN 13463-1 : 2009

EN 13463-5 : 2003

(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 1/2G c IIC T1 ... T6
II 1 D Txx °C**

This certificate is issued on 16 February 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.

T. Pijpker
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 10ATEX0199 X**

Issue No. 1

(15) **Description**

Magnetic Level Gauges Pointer Type D-..., Type F-..., Type L-... and Type R-... are used to indicate the level of the fluid in the tank to which it is mounted.

It consists of a bypass chamber with a magnetic float that controls the magnetic flaps located outside the bypass chamber. The flaps indicate the fluid level.

The Magnetic Level Gauges may be mounted in an explosive gas atmosphere where the application of equipment of category 2 G is required or in an explosive dust atmosphere where the application of equipment of category 1 D is required.

The inside of the bypass chamber is equipment category 1 G.

The allowed maximum process temperature and pressure are depending on the materials used for the equipment construction. For details refer to the installation instructions provided with the equipment.

Since there is no selfheating of the equipment, the temperature class is determined by the maximum process temperature and the maximum surface temperature T is equal to the process temperature.

Installation instructions

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

(16) **Test Report**

No. 213858700.

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

For the ambient temperature range, refer to the installation instructions.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213858700.