

[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**



[3] **EC-Type Examination Certificate Number: DEMKO 06 ATEX 0508841X**

[4] **Equipment or Protective System: Magnetostrictive Probes and Sump Sensor**

[5] **Manufacturer: Veeder-Root Company**

[6] **Address: 125 Powder Forest Drive, Simsbury, CT 06070 USA**

[7] **This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.**

[8] **UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to 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 report no. 0508441

[9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**

**EN 50014: 1997 E incl. A1+A2
EN 50284: 1999 E**

**EN 50020: 2002 E
EN 60079-25: 2004**

[10] **If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.**

[12] **The marking of the equipment or protective system shall include the following:**

Ex II 1G EEx ia IIA T4

On behalf of UL International Demko A/S

Herlev, 2006-03-06

**Karina Christiansen
Certification Manager**

Certificate: 06 ATEX 0508841X

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entirety and without any change, schedule included**

UL International Demko A/S

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Schedule

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EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 06 ATEX 0508841X

[15]

Description of Equipment or protective system

The intrinsically safe Magnetostrictive Plus Probes, Global Magnetostrictive Probes and Magnetostrictive Sensors are designed to detect the level of liquid in petroleum storage tanks, containment sumps and dispenser pans. The devices are powered by an associated apparatus with suitable entity parameters.

Nomenclature for type:

Magnetostrictive Plus Probe	84636x - yzz, 84736x - yzz and 85636x - yzz
Global Magnetostrictive Plus Probe	84626x - yzz
Magnetostrictive Sump Sensor	85706x - yzz

x (Sixth Digit)

Specifies OEM and material

y (First Suffix)

EEPROM programming variables

zz (Second and Third Suffixes)

Specifies Length

Temperature range

The ambient temperature range is -40 °C to +60°C.

Electrical data

Intrinsically safe specifications:

U_i : 12.6 V
I_i : 196 mA
P_i : 0.62 W
C_i : 1.221 uF
L_i : 2.83 mH

Installation instructions

See special conditions of safe use.

Mounting instructions

None.

Routine tests

None.

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EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 06 ATEX 0508841X

- [16] Report No.
Project Report No.: 05NK08841 (Hazardous Location Testing)

Drawings:

Number	Rev.	Date	Description
331671-001	I	2006-02-21	Safety Certification Mag Plus Probe
331671-020	B	2006-02-21	Safety Certification Mag Sump Sensor

- [17] Special conditions for safe use:
The devices have been evaluated in conjunction with the intrinsic safety system defined in DEMKO 06 ATEX 137480X. The descriptive system documents included with the aforementioned certificate must be followed during installation.

The following condition of safe use applies to the Mag Sump Sensor: Before installing or taking into a hazardous area, earth the unit in a Safe Area to remove any static charge. Then immediately transport the unit to the installation site; do not rub or clean the unit prior to installation. Cleaning is not required under normal service conditions; do not rub or clean the device after installation. If the unit is not fixed to a known earth point when installed, ensure that a separate earth connection is made to prevent the potential of static discharge. When fitting or removing the unit, use of anti-static footwear & clothing is required.

This device has not been evaluated for use across a boundary wall.

The enclosure contains aluminum. Care must be taken to avoid ignition hazards due to impact of friction.

- [18] Essential Health and Safety Requirements
Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2006-03-06

Karina Christensen
Certification Manager

Certificate: 06 ATEX 0508841X
Report: 05NK08841

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