

EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

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

[3]

EC-Type Examination Certificate Number: **DEMKO 07 ATEX 29144X Rev. 0**

[4]

Equipment or Protective System: **Intrinsically Safe Vacuum Sensor**

[5]

Manufacturer: **Veeder Root Company**

[6]

Address: **2709 Route 764, Duncansville, PA 16635 USA**

[7]

This equipment or protective system and any acceptable variation thereto are 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. **12CA30370-07ATEX29144X**

[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 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:

 **II 1 G Ex ia IIA T4**

Certification Manager

Jan-Erik Storgaard

Date of issue: 2007-10-31

Re-issued: 2012-06-28

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark

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[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 07 ATEX 29144X Rev. 0
Report: 12CA30370

[15]

Description of Equipment or protective system

The vacuum sensor assembly, Part No. 332175-XXX is designed to monitor the interstitial space of a secondary containment system used in a flammable liquid tank and delivery system. The device is designed to be connected to a vacuum source and the interstitial space. A valve and pressure transducer work in combination with the siphon port on the submersible turbine pump to draw the interstitial space to a negative pressure and then monitor it for leakage. The vacuum sensor is designed to be connected to an intrinsically safe source. It contains two ports (a VAC TEST port and a STP SIPHON port), which are connected to the interstitial space being monitored and the submersible turbine pump. It is wired to the TLS-350 or TLS450 via a junction box by the use of a three-pin cable connector that does not exceed 1980 mm in length. One of the connections in this cable attaches to the input power (red), one to an external float switch (white) and one to a common ground (black). The float switch is considered simple apparatus.

Nomenclature for type:

Part Nos. 332175 - XXX
 I II

I - 332175 - Basic Model Number

II – XXX – Three alphanumeric characters unrelated to safety

Temperature range:

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

Electrical data:

Intrinsically safe specifications:

Ui = 12.6 Vdc

Ii = 196 mA

Pi = 0.62 W

Ci = 0.0264 µF

Li = 0.40mH

Installation instructions:

See special conditions for safe use.

Mounting instructions:

The apparatus attaches to the containment system by the use of a mounting bracket.

Routine tests:

None.

[16]

Report No.

Project Report No.: 12CA30370-07ATEX29144X (Hazardous Location Testing)

Description:

ATEX Safety Certification Vacuum Sensor

Drawing No.:

331671-025

Rev. Level:

B

Date:

2012-06-14

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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 and installation manual 577013-578 included with the aforementioned certificate must be followed during installation.
- 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.
- All covers must be in place in the intrinsically safe field wiring compartments to ensure safe operation.

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of ATEX directive 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.

