

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 12 ATEX 1204670X Rev. 0**

[4]

Equipment or Protective System: **Associated Apparatus, Flammable Liquid Inventory Measurement System**

[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. **12NK04670-12ATEX1204670X**

[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**

Certification Manager

Jan-Erik Storgaard

Date of issue: 2012-07-19

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Description of Equipment or protective system

The TLS-XB/8603 system consists of a control unit for use in indoor non-hazardous locations, and an optional overfill alarm with its optional acknowledgement switch for use in outdoor nonhazardous locations. The TLS-XB/8603 has intrinsically safe output circuits for use with up to 64 (16 per USM) probes, sensors, or line leak detectors in a Zone 0, Group IIA hazardous location. The system is intended to monitor overfill conditions (with optional overfill alarm), the level of petroleum products in underground tanks, and for detecting the presence of liquids and hydrocarbon vapors, typically in an observation well or in the interstitial area of a double wall tank. The leak detection and overfill monitoring capabilities of this device have not been evaluated.

Nomenclature for type:

Control Unit Form No. 8603XX - XXX
 I II III

I - 8603 - Basic model number.

II - XX - any alphanumeric character.

III - XXX any alphanumeric character combination

X's do not affect safety related construction features

Temperature range

The ambient temperature range is 0°C to +50°C.

Electrical data

Intrinsically safe specifications:

U_m : 250 V

8603 terminals +, - (2 wire):

U_o : 12.6 V

I_o : 177 mA

P_o : 0,563 W

L_o : 4,5 mH

C_o : 13,39 µF

8603, terminals +,-,+ (3 wire):

U_o : 14.1 V

I_o : 196 mA

P_o : 0,63 W

L_o : 2,9 mH

C_o : 8,24 µF

Installation instructions

See Special Conditions of safe use

Mounting instructions

None

Routine tests

None

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Report No.

Project Report No.: 12NK04670-12ATEX1204670 (Hazardous Location Testing)

Documents:

Description:

ATEX/IECEx Safety Certification TLS-XB Drawing

Drawing No.:

331671-037

Rev. Level:

A

Date:

2012-04-03



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[17] Special conditions for safe use:

- This device must be installed as part of the intrinsic safety system defined in DEMKO 06 ATEX 137480X. The descriptive system documents and manual number 577013-578 included with the aforementioned certificate must be followed during installation.
- To ensure safe operation the cover must be in place.

[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.

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.

