

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 16184X Rev. 1**

[4]

Equipment or Protective System: **Associated Apparatus, Flammable Liquid Measurement Console, TLS-450**

[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. **12CA30370-07ATEX16184X**

[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: 2007-10-31

Re-issued: 2012-06-27

Notified Body

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

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Schedule
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Description of Equipment or protective system

The TLS-450/Form 8600 Flammable Liquid Level Gauge/Leak Detection Console is an associated apparatus intended to monitor flammable liquid storage tanks, piping, associated sumps and wells for fluid levels when combined with intrinsically safe magnetostrictive probes, sensors and/or simple apparatus. The devices are rectangular shaped control panels that are intended to be mounted in a non-hazardous location of a vehicle refueling facility. They may be provided with or without displays and printers. The overall design includes partitioned field wiring compartments. Up to four of the compartments may be for intrinsically safe wiring. Each intrinsically safe compartment is separated with partitions. Each compartment is provided with an intrinsic safety Universal Sensor Module (USM) or ordinary locations I/O Module. Within each intrinsic safety compartment, the USM provides connection facilities for a maximum of 16 two-wire intrinsically safe devices. The console is also equipped with connection facilities for a mains source, relays contacts, switch hook signal detection and low voltage contact closures. External low voltage connection facilities are also provided for linking these devices to computers, printers, point of sale equipment and other peripheral devices.

Nomenclature for type:

Form Nos. 8600 6 0 - 0 0 0
 I II III IV

I – Basic Form Number

TLS-450/8600 Series

II – Approvals

6 – ATEX

III - OEM Not related to certification (0-9)

IV – Optional (This option is not related to the explosion safety of the device)

000-999 Console configurations not related to certification

Temperature range:

See special conditions of safe use.

Electrical data:

Intrinsically safe specifications:

U_m : 250V

“+,-“ Terminal Combination:

U_o : 12.6 V

I_o : 177 mA

P_o : 0.563 W

L_o : 4.5 mH

C_o : 13.39 µF

“+,+,-“ Terminal Combination:

U_o : 14.1 V

I_o : 196 mA

P_o : 0.63 W

L_o : 2.9 mH

C_o : 8.24µF

Installation instructions:

See Special Conditions for safe use.

Mounting instructions:

None.

Routine tests:

None.

[16]

Report No.

Project Report No.: 12CA30370-07ATEX16184X (Hazardous Location Testing)

Description:

ATEX/IECEX Safety Certification TLS-450 Consoles

Drawing No.:

331671-027

Rev. Level:

C

Date:

2012-06-18



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[14]

Schedule
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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, all modules or covers must be in place in both the intrinsically safe and unspecified circuit field wiring compartments.

[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.

