

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 06 ATEX 137481X Rev. 1**

[4]

Equipment or Protective System: **Associated Apparatus, Flammable Liquid Measurement Console, TLS-350**

[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. **SR9096350**

[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: 2012-06-27

Re-issued: 2012-09-21

Notified Body

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

Tel. +45 44 85 65 65, info.dk@ul.com

www.ul-europe.com



[13]

[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 06 ATEX 137481X Rev. 1
Report: SR9096350

[15]

Description of Equipment or protective system

The TLS-350 Series consists of a control unit for use in an indoor non-hazardous location that provides intrinsically safe circuits for up to 64 intrinsically safe apparatus. The circuits are intended for use with magnetostrictive probes, pressure transducers (line leak detectors), sensors and a variety of simple apparatus intended to monitor for leaks. The device, when used with an appropriate probe or sensor, can provide an overflow alarm and monitor the fluid level in a flammable liquid underground storage tank. The device also monitors pressure in flammable liquid pipelines and detects the presence of liquids or hydrocarbon vapours, typically in an observation well or in the interstitial space of a double wall tank. The Associated Apparatus is intended for use within the Intrinsic Safety System described in DEMKO 06 ATEX 137480X.

Nomenclature for type:

Form Nos. 8470 6 0 - 0 0 0
 I II III IV V VI

I – Basic Form Number

8470 – TLS-350
8482 – TLS-350R

II – Approvals

6 – ATEX

III - OEM Note related to certification (0-9)

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

0-9 Communications

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

0-9 Communications

VI – Voltage

Defines input voltage, 250 volts maximum

Temperature range:

The ambient range for the consoles is $0\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$.

Electrical data:

Intrinsically safe specifications:

U_o : 12,6 V
 I_o : 196 mA
 P_o : 0,62 W
 C_o : 13,5 μF
 L_o : 3,7 mH

Note – The values for C_o and L_o are the aggregate sum of all terminals when these devices are used in installations that do not follow the System Descriptive Documents specified in 06 ATEX 137480X. Based on compliance with EN 60079-25:2004, the values for C_o and L_o do not apply when these devices are installed in accordance with the System Descriptive Documents specified in 06 ATEX 137480X.

Installation instructions:

See Special conditions for safe use.

Mounting instructions:

None.

Routine tests:

None.



[13]

[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 06 ATEX 137481X Rev. 1
Report: SR9096350

[16] Report No.
Project Report No.: SR9096350 (Hazardous Location Testing)

| Drawings: Number | Rev. | Date | Description |
|---------------------|------|------------|--|
| 331671-105 | B | 2012-06-21 | Safety Certification TLS-350 Series Consoles |

[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 filed wiring compartments.

[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.

