

# EC-TYPE EXAMINATION CERTIFICATE



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[2]

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

[3]

EC-Type Examination Certificate Number: **DEMKO 11 ATEX 1111659X Rev. 2**

[4]

Equipment or Protective System: **Associated Apparatus, Flammable Liquid Measurement Console, 8601**

[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. **12NK04670-11ATEX1111659X**

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Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2006**

**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.

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The marking of the equipment or protective system shall include the following:

 **II (1) G [Ex ia] IIA**

## Certification Manager

Jan-Erik Storgaard

**Notified Body**

**Date of issue:** 2011-10-24

**Re-issued:** 2012-07-19

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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 11 ATEX 1111659X Rev. 2**  
**Report: 12NK04670**

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Description of Equipment or protective system

The 8601 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. They may be provided with or without displays. The overall design includes a partitioned intrinsically safe field wiring compartment with connection facilities for a maximum of twelve (12) two-wire intrinsically safe devices or six (6) three-wire intrinsically safe devices. The console is also equipped with connections facilities for a mains source, relays contacts 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:

Control Unit Form No. 8601XX - XXX  
                                  I    II    III

- I - 8601 - 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<sub>m</sub> : 250 V

8601 terminals +, - (2 wire):

U<sub>o</sub> : 12,6 V

I<sub>o</sub> : 177 mA

P<sub>o</sub> : 0,563 W

L<sub>o</sub> : 4,5 mH

C<sub>o</sub> : 13,39 µF

8601, terminals +,-,+ (3 wire):

U<sub>o</sub> : 14,1 V

I<sub>o</sub> : 196 mA

P<sub>o</sub> : 0,63 W

L<sub>o</sub> : 2,9 mH

C<sub>o</sub> : 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.: 12NK04670-11ATEX1111659X (Hazardous Location Testing)

Documents:

**Description:**

Safety Certification Drawing

**Drawing No.:**

331671-036

**Rev. Level:**

B

**Date:**

2012-06-26

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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 installation manual 557013-578 included with the aforementioned certificate must be followed during installation.
- To ensure safe operation the cover must be in place.



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[14]

**Schedule**  
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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.

