

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 17 ATEX 1889X Rev. 0**

[4]

Product: **Electronic Meter Register, EMR4 System**

[5]

Manufacturer: **Veeder Root Company**

[6]

Address: **125 Powder Forest Drive, Simsbury, CT 06070 USA**

[7]

This product 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 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products 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. **4787883123.5.1**

[9]

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

EN 60079-0:2012+A11:2013

EN 60079-11:2012

EN 60079-25:2010

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following:

II 1 G Ex ia IIA T4 Ga

II (1) G [Ex ia Ga] IIA

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2018-06-18

Notified Body

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[13]

[14]

Schedule EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 17 ATEX 1889X Rev. 0

[15]

Description of Product

The Electronic Meter Register, EMR4 System consists of an electronic meter register for use in Group IIA Hazardous Locations, an Interconnection Box (IB) for use in indoor non-hazardous locations, and an optional printer for use in an indoor non-hazardous location. The system is intended to provide a means of electronically controlling the flow and metering of flammable or combustible liquids including LP Gas and fuel oil in a truck or in a stationary application.

The Interconnection Box (84576*-***) provides intrinsically safe circuits to the electronic meter register and contains relays designed to control solenoid valves to allow liquid to be dispensed when the electronic meter register is activated.

The Electronic Meter Register consists of the intrinsically safe Display Head (84559*-**1 or 84559*-**3) and/or Remote Display Head (84559*-**2) for use in Gas Group IIA. The display heads can contain or be provided with an optional remote pulser (84527*-***) and either corner/interlock switch (333706-***) or C & C switch (333795). Additionally, a temperature probe (331896-***), 2-channel quadrature encoder (331884 or 94Q100-B3-00350), emergency stop switch (845900-***), and keypad (333703-*** or 333711-***) can also be connected to the display head in the hazardous locations.

Nomenclature:

Interconnection Box (IB) – Form No. 84576*-***, where * may be any number 0-9

Display Head (DH) – Form No. 84559*-**x, where * may be any number 0-9, and x may be 1, 2 or 3:

- 1 – Meter mount, with currency, with temperature comp., with encoder
- 2 – Remote mount, with currency, with temperature comp., with or without encoder
- 3 – Meter mount, with currency, with temperature comp., without encoder

Temperature range

Equipment	Ambient Temperature Range
Interconnect Box	-25 °C to +40 °C
Display Head	-40 °C to +60 °C
Remote Display Head	
Optional Keypad	
Emergency Switch	
Corner Switch	
C & C Switch	
Rotary Encoder	
Temperature Probe	-25 °C to +70 °C
Remote Pulser	

Electrical data

Intrinsically safe specifications:

U_m : 250V (for Interconnection Box)

Interconnect Box:

Display Head:

Keypad, Emergency Stop Switch, Corner/Interlock Switch, C & C Switch, Remote Pulser, Rotary Encoder, and Temperature Probe

U_o : 12.6 V

U_i : 12.6 V

U_i : 12.6 V

I_o : 377 mA

I_i : 377 mA

I_i : 377 mA

P_o : 1.07 W

P_i : 1.07 W

P_i : 1.07 W

L_o : 230uH

L_i : 230uH

Li : 0.0mH

C_o : 10.7uF

C_i : 10.7uF

Ci : 0.0uF

Routine tests

None

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17]

Specific conditions of use:

- The Display Head, Remote Display Head, Keypad, Pulse Encoder, Thermoprobe, ESS Switch, and Corner Switch contain aluminium. Care must be taken to avoid ignition hazards due to impact or friction.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademarks  VEEDER-ROOT OR  may be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Accredited by DANAK under registration number 7011 to certification of products.