

# CERTIFICATE

## (1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 99ATEX3852 X** Issue Number: **3**

(4) Equipment: **Vortex Flowmeter Model 8800D**

(5) Manufacturer: **Rosemount Inc.**

(6) Address: **12001 Technology Drive, Eden Prairie, MN 55344, USA**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the 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 test report number NL/DEK/ExTR11.0057/01.

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

**EN 60079-0 : 2009**  
**EN 60079-11 : 2012**

**EN 60079-1 : 2007**  
**EN 60079-26 : 2007**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



**II 1/2 G**  
**II 2(1) G**  
**II 1 G**

**Ex d [ia] IIC T6 Ga/Gb**  
**Ex d [ia Ga] IIC T6 Gb**  
**Ex ia IIC T6 Ga**

**(integral transmitter)**  
**(remote transmitter)**  
**(remote sensor)**

This certificate is issued on 13 January 2015 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

R. Schuller  
Certification Manager



© Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 99ATEX3852 X**

Issue No. 3

(15) **Description**

The Model 8800D Vortex Flowmeter consists of a cast aluminum or stainless steel electronics housing in type of protection flameproof enclosures Ex d and an integral or remote mounted stainless steel meter nickel alloy, carbon steel, or super duplex, body/sensor assembly in type of protection intrinsic safety Ex ia. The electronics processes and converts the sensor signal into a 4-20 mA, HART digital, pulse or Foundation Fieldbus output signal.

Ambient temperature range: -50 °C to +70 °C

Process temperature range: -202 °C to +427 °C

**Electrical data**

Power supply 32 Vdc max (Fieldbus, digital output),  $U_m = 250$  V

42 Vdc max (4-20 mA HART analog and pulse outputs),  $U_m = 250$  V

Remote mounted sensor: in type of protection Ex ia IIC, only to be connected to the associated Model 8800D Vortex Flowmeter electronics. The maximum allowable length of the interconnecting cable is 152 m (500 ft).

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. NL/DEK/ExTR11.0057/01

(17) **Special conditions for safe use**

For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.

The Flowmeter is provided with special fasteners of property class A2-70 or A4-70.

Units marked with "Warning: Electrostatic Charging Hazard" may use non-conductive paint thicker than 0,2 mm. Precautions shall be taken to avoid ignition due to electrostatic charge on the enclosure.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR11.0057/01.