

Translation

(1) Statement of Conformity

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



- (3) **Statement of Conformity Number: TÜV 08 ATEX 554956 X**

- (4) for the equipment: Durchflussmesser
TRIO WIRL Typ VT42. / ST42. / VR42. / SR42 bzw.
Durchflussmesser
FV4000 Typ VT42. / VR42.
FS4000 Typ ST42. / SR42.

- (5) of the manufacturer: **ABB Automation Products GmbH**

- (6) Address: Dransfelder Str. 2
37079 Göttingen
Germany

Order number: 8000554956

Date of issue: 2008-10-20

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this statement of conformity and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH certifies that this equipment or protective system 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 the confidential report No. 08 204 554956.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006

EN 60079-15:2005

EN 61241-0:2006

EN 61241-1:2004

- (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 statement of conformity relates only to the design, examination and tests of the specified equipment in accordance 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 or protective system must include the following:



II 3 G Ex nA [nL] IIC T4 resp.

II 3 D Ex tD A22 T85°C...T_{Medium} IP67

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The head of the certification body

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(13) **SCHEDULE**

(14) **Statement of Conformity No. TÜV 08 ATEX 554956 X**

(15) Description of equipment

Vortex Flowmeter FV4000-VT42./VR42. and the Swirl Flowmeter FS4000-ST42./SR42. transporting and metering the flowrate of liquids, gases (including unstable gases) and steam and measuring the actual volume flow at operating conditions. They measure in mass or normal flow units at constant operating conditions (pressure, temperature) and the saturated steam flow in mass units under varying temperature / pressure conditions when a temperature sensor (option) is installed in the instrument.

Technical data:

Ex nA [nL] IIC:

Supply circuit (terminal 31, 32) $U_B = 14...46 \text{ V}$
 $I_B = 4...20 \text{ mA}$

switching output (terminal 41, 42) $U_B = 16...30 \text{ V}$
 $I_B = 2...15 \text{ mA}$

$U_m = 60 \text{ V}$

Type of protection	Permitted range of the ambient temperature	Maximum fluid temperature [°C]	Temperature class
Ex nA [nL] IIC	$-40 \text{ °C} \leq T_{\text{amb}} \leq +70 \text{ °C}$	130	T4
		195	T3
		290	T2
		400	T1

Type of protection	Permitted range of the ambient temperature	Version	MODEL No.	Surface temperature TX
Ex tD A21 IP6X	$-20 \text{ °C} \leq T_{\text{amb}} \leq +60 \text{ °C}$	VORTEX-Kompakt	VT42	$(T_{85}...T_{\text{Fluid}}) \text{ °C}$
		SWIRL-Kompakt	ST42	
		VORTEX-Remote	VR42	T85 °C
		SWIRL-Remote	SR42	

(16) Test documents are listed in the test report No. 08 204 554956.

(17) Special conditions for safe use

- The over voltage category III / II must not be exceeded by connected non mains / mains circuits.

(18) Essential Health and Safety Requirements

no additional ones