

Translation

(1) EC-Type Examination Certificate

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

(3) No. of EC-Type Examination Certificate: **BVS 11 ATEX E 130**

(4) Equipment: **Flow sensors type SS 20.500 Ex**

(5) Manufacturer: **SCHMIDT Technology GmbH**

(6) Address: **78112 St. Georgen/Schwarzwald, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council 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 the test and assessment report BVS PP 11.2193 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2009	General requirements
EN 60079-15:2010	Type of protection 'n'
EN 60079-31:2009	Protection by Enclosures 't'

(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 appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to 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 3G Ex nA IIC T4 Gc
II 3D Ex tc IIIC T125°C Dc IP64

DEKRA EXAM GmbH
Bochum, dated 12th August 2011

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate**
BVS 11 ATEX E 130
- (15) 15.1 Subject and type

Flow sensors type SS 20.500 Ex

15.2 Description

The flow sensor of SS 20.500 Ex is used to measure the flow speed and the temperature of gaseous media and gases; the sensor is intended for use in Zones 2 and 22.

The flow sensor consists of an enclosure and a pipe-shaped sensing head. The enclosure is manufactured for type of protection "nA" and Protection by Enclosures "t".

The flow sensor is available either with a sensing head directly fixed to the enclosure or with a sensing head connected by a cable.

15.3 Parameters

Thermal data:

Medium temperature

-40 °C ... +85 °C

Ambient temperature

-20 °C ... +70 °C

Electrical data:

Power supply

Rated voltage

Rated current

DC / AC

24 V ±20 %

< 170 mA

Output of measuring signal

0 ... 10 V / 4 20 mA

Degrees of protection:

IP 64

- (16) Test and assessment report

BVS PP 11.2193 EG as of 12.08.2011

- (17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 30.08.2011
BVS-Yil/Ar E 1378/11



Certification body



Special services unit