

## 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 12 ATEX E 093 X**
- (4) Equipment: **Electronic module type KDSE**
- (5) Manufacturer: **Heinrichs Messtechnik GmbH**
- (6) Address: **Robert-Perthel-Straße 9, 50739 Köln, 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 12.2118 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- IEC 60079-0:2011 General requirements**  
**EN 60079-11:2012 Intrinsic safety 'i'**
- (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 2G Ex ib IIC T4 Gb**  
**II 2D Ex ib IIIC T135°C Db**

DEKRA EXAM GmbH  
Bochum, dated 29. August 2012

Signed: Simanski

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Certification body

Signed: Dr. Eickhoff

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Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate  
BVS 12 ATEX E 093 X**
- (15) 15.1 Subject and type

Electronic module type KDSE for variable area flowmeter

15.2 Description

The electronic module is a transmitter with integrated magneto electric measuring element for measurement of floaters actual position or transmission of actual pointer position into an electrical signal.

The electronic module has to be fastened inside an enclosure with connector with a degree of protection of min. IP20 (EPL Gb) resp. IP54 (EPL Db). This enclosure and the connector should by sufficient for the use (EPL).

15.3 Parameters

Voltage	Ui	DC	30	V
Current	Ii		150	mA
Effective internal inductance	Li		0,24	mH
Effective internal capacitance	Ci		15	nF

Power Pi in acc. with the following table:

Use in	EPL Gb	EPL Db	
Ambient temperature range	-40 °C up to +70 °C	-40 °C up to +40 °C	-40 °C bis +70 °C
Power Pi	1 W	750 mW	650 mW

Max. surface temperature for use in EPL Db 135 °C

- (16) Test and assessment report  
BVS PP 12.2118 EG as of 29.08.2012
- (17) Special conditions for safe use

The electronic module has to be fastened inside an enclosure; this enclosure shall by sufficient for that use and shall have a degree of protection of min. IP20 (EPL Gb) resp. IP54 (EPL Db).

The used connector shall by sufficient for the use (EPL) and shall have a degree of protection of min. IP20 (EPL Gb) resp. IP54 (EPL Db).

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, 29. August 2012  
BVS-Schu/Sp A 20110889

  
\_\_\_\_\_  
Certification body

  
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Special services unit