



## EC-Type Examination Certificate

- (1) **EC-Type Examination Certificate**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) Examination Certificate Number  
**SEV 10 ATEX 0169**
- (4) Equipment: Pressure transmitter Huba 680.xxx and 681.xxx
- (5) Manufacturer: Huba Control AG
- (6) Address: Industriestrasse 17, CH-5436 Würenlos
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Electrosuisse SEV as notified body No. 1258 in accordance with article 9 of the Council Directive of the European Communities of 23 March 1994 (94/9/EC), 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 results of the examination are recorded in the confidential report No. 09-IK-0051.03
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- |                                |                         |                         |
|--------------------------------|-------------------------|-------------------------|
| <b>EN 1127-1:2007</b>          | <b>EN 60079-0:2009</b>  | <b>EN 60079-11:2007</b> |
| <b>EN 1127-2:2002 +A1:2008</b> | <b>EN 60079-26:2007</b> | <b>EN 61241-11:2006</b> |
| <b>EN 50303:2000</b>           |                         |                         |
- (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 examination certificate relates only to design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.
- (12) The marking of the equipment shall include the following:



**see Appendix, page 3: (19) Marking**

**Electrosuisse**  
Certification Body ATEX

Fehraltorf, 2010-11-10

Martin Plüss  
Product Certification

## Appendix

- (13)
- (14) **EC-Type Examination Certificate SEV 10 ATEX 0169**

(15) Description of the equipment

The pressure transmitter Huba 680.xxx and 681.xxx measures the signal of a piezo-resistive pressure measurement bridge and converts it into a standard signal. Input and signal transmission take place via an intrinsically safe three-wire 4-20 mA current loop circuit. 680.xxx are types featuring a screw-in flange, 681.xxx represent dive probes.

**Type Description**

Placeholders "xxx" stand for the accuracy level the sensor exhibits. They do not have any impact on explosion protection and general security.

**Assessment data**

Measurement and power supply circuit of the ignition protection type intrinsic security Ex ia IIC, Ex iaD and Ex ia I is only for connection to a certified and intrinsically safe electric circuit.

**Maximum values:**

$U_i \leq 28V$   
 $I_i \leq 93mA$   
 $P_i \leq 0.65W$

Effective internal capacitance	$C_i = 12nF$
plus per meter length of connecting cable	$C_K = 0.12nF$
Effective internal inductance	$L_i = 1.25mH$
plus per meter length of connecting cable	$L_K = 0.001mH$

- (16) Test Report 09-IK-0051.03
- (17) Special conditions for safe use  
none
- (18) Fundamental essential health and safety requirements  
Fulfilled by the standards applied

## Appendix to EC-Type Examination Certificate SEV 10 ATEX 0169

### (19) Marking

Only versions with cable outlet (cable jacket with metal mesh) or metallic plug.



II 1G Ex ia IIC T3 ... T6



II 1D Ex iaD 20 IP6X T145 ... T70°C



I M1 Ex ia I

or

For other versions and versions for IIC only with cable outlet (cable jacket with metal mesh) or metallic plug.



II 2G Ex ia IIC T3 ... T6



II 1D Ex iaD 20 IP6X T145 ... T70°C



I M2 Ex ia I

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