



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

**PTB 10 ATEX 2014**

(4) Equipment: Explosion protected temperature sensor, type ExPro-AT-..

(5) Manufacturer: Schischek GmbH

(6) Address: Mühlsteig 45, 90579 Langenzenn, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 the confidential assessment and test report PTB Ex 10-29401 .

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

**EN 60079-0:2006**

**EN 60079-11:2007**

**EN 61241-0:2006**

**EN 61241-1:2004**

**EN 61241-11:2006**

(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 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 shall include the following:

**II 2 G Ex ia IIC T6 or II 2 D Ex tD iaD A21 IP66 T80 °C**

Zertifizierungssektor Explosionschutz

Braunschweig, July 9, 2010

By order.

Dr.-Ing. U. Johannsmeyer  
Direktor und Professor



(13)

## SCHEDULE

(14)

### EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 2014

(15) Description of equipment

The explosion protected temperature sensor, type ExPro-AT-.. is used for the measurement of temperatures and for signal transmission. It can be operated as a channel sensor or as a room sensor.

The equipment is installed inside of hazardous locations.

For relationship between temperature class and maximum permissible ambient temperature range, reference is made to the table:

Temperature class	Maximum permissible ambient temperature range
T6	-40 °C ... 70 °C
T5	-40 °C ... 85 °C
T4	-40 °C ... 110 °C

Electrical data

Voltage supply .....type of protection Intrinsic Safety Ex ia IIC  
 (terminals 1, 2, 3) or Ex iaD  
 only for connection to a certified intrinsically safe circuit

Maximum values:  
 $U_i = 30 \text{ V}$   
 $I_i = 10 \text{ mA}$   
 $P_i = 50 \text{ mW}$   
 $L_i$  negligibly low  
 $C_i$  negligibly low

(16)

Assessment and test report

PTB Ex10-29401

(17)

Special conditions for safe use

none

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 2014

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungssektor Explosionsschutz  
By order:

  
Dr.-Ing. U. Johannsmeyer  
Direktor und Professor



Braunschweig, July 9, 2010