

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 15 ATEX G 001 X**

(4) Equipment: **Transmitter types ITR 021*, ITR 031*, ITR 022*, ITR 032*, XTR 020*, XTR 030*, XTR 021* and XTR 031***

(5) Manufacturer: **Dräger Safety AG & Co. KGaA**

(6) Address: **Revalstraße 1, 23560 Lübeck, 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 report PFG-no. 41300315P.

(9) The Essential Health and Safety Requirements with respect to the measuring function for explosion protection are assured by application of:

EN 60079-29-1:2007

EN 50271:2010

This EC-type examination certificate covers for types ITR 0*1* and ITR 0*2* the measuring function for those gases and vapours which are listed in the instruction manual with reference to the EC-type examination certificate BVS 08 ATEX G 001 X.

This EC-type examination certificate covers for type XTR 0*0* for operation in gas category methane the measuring function for methane in the measuring range 0 - 100 % LEL, for operation in gas category propane the measuring function for propane, i-butane, n-butane, n-pentane, n-hexane, n-octane, n-nonane and i-propanol in the measuring range 0 - 100 % LEL and ethanol and ethyl acetate in the measuring range 0 - 70 % LEL, and for operation in gas category ethylene the measuring function for ethylene, propylene, toluene, acetone and ethyl acetate in the measuring range 0 - 100 % LEL.

This EC-type examination certificate covers for type XTR 0*1* the measuring function for methane, propane, acetone, acetylene, ammonia, special boiling point spirit 65/95, benzene, 1,3-butadiene, n-butane, 2-butanone, n-butyl acetate, diethyl ether, dimethyl ether, ethanol, ethylene, ethyl acetate, ethylene oxide, n-hexane, methanol, methyl methacrylate, n-octane, n-pentane, 2-propanol, propylene, propylene oxide, n-nonane, toluene, o-xylene and hydrogen in the measuring range 0 - 100 % LEL.

This EC-type examination certificate covers equipment with software version 1.5.0.

(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:

see PTB 11 ATEX 1005 X

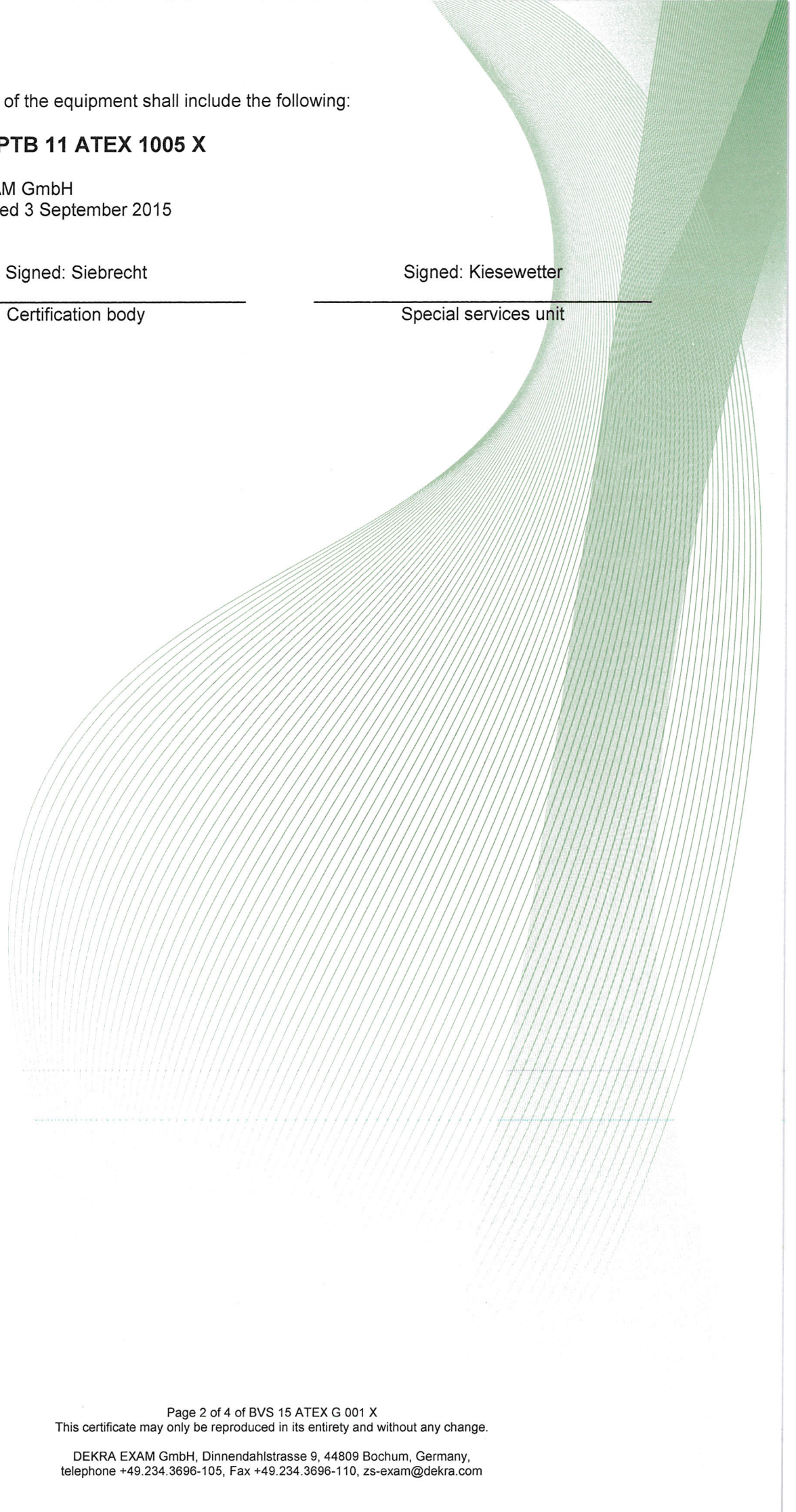
DEKRA EXAM GmbH
Bochum, dated 3 September 2015

Signed: Siebrecht

Signed: Kiesewetter

Certification body

Special services unit



(13) Appendix to

(14) **EC-Type Examination Certificate
BVS 15 ATEX G 001 X**

(15) 15.1 Subject and type

Transmitter types ITR 0*1*, ITR 0*2*, XTR 0*0* and XTR 0*1*

Coding of type: (1)TR 0(2)(3)(4)

- | | | |
|-----|------------|---|
| (1) | 1 or X | Sensor interface: infrared (I) or catalytic (X) |
| (2) | 2 or 3 | Material of housing: aluminium (2) or stainless steel (3) |
| (3) | | Internal sensor: |
| | 1 or 2 | for ITR: IDS 0101 (1) or IDS 0102 (2) |
| | 0 or 1 | for XTR: IDS 0002 (0) or XDS 0200 (1) |
| | | External sensor with junction box EAC 01**: |
| | 1 or 2 | for ITR: IDS 0101 (1) or IDS 0102 (2) |
| | 0 or 1 | for XTR: IDS 0002 (0) or XDS 0200 (1) |
| | | External sensor with other junction boxes: |
| | 1 or 2 | for ITR: IDS 0101 (1) or IDS 0102 (2) or IDS 0111 (1) or IDS 0112 (2) |
| | 0 or 1 | for XTR: IDS 0002 (0) or IDS 0012 (0) or Polytron SE Ex PR M* DD (1) or Polytron SE Ex PR NPT1 DD (1) or Polytron SE Ex HT M DD (1) |
| (4) | 0, 1, I, J | interface: "d", 4-20 mA (0) or "d", 4-20 mA with relays (1) or "d"+"e", 4-20 mA (I) or "d"+"e", 4-20 mA with relays (J) |

15.2 Description

The transmitters ITR 0*1* (Polytron 5700 with Draeger PIR 7000 type 334), ITR 0*2* (Polytron 5700 with Draeger PIR 7000 type 340), XTR 0*0* (Polytron 5310 with Draeger Sensor IR) and XTR 0*1* (Polytron 5200 with Draeger Sensor PR M DD, HT M DD or PR NPT DD) are fixed equipment for the measurement of flammable gases and vapours mixed with air at volume fractions up to the lower explosive limit. The sensors may be directly connected to the transmitter housing or operated as remote sensors.

A 4-20 mA interface serves for transmission of the measured value to a control unit.

The transmitters can be equipped with a relay module which provides two alarm relays and one fault relay.

15.3 Parameters

See EC-type examination certificate PTB 11 ATEX 1005 X and 1st supplement

(16) Test report

PFG-Nr. 41300315P as of 03/09/2015

EC-type examination certificate PTB 11 ATEX 1005 X as of 02/03/2011

1. supplement to the EC-type examination certificate PTB 11 ATEX 1005 X as of 13/12/2011

(17) Special conditions for safe use

- see EC-type examination certificate PTB 11 ATEX 1005 X
- The A2 alarm (main alarm) shall be configured "latching" and "non-acknowledgeable".
- The A1 alarm (pre alarm) shall only be configured "acknowledgeable" if it is used for operation of an acoustic alarm device.
- The password may not be set to "0000".
- The instruction manual of the sensor shall be adhered to.

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, 3 September 2015
PFG Kie/Ne



Certification body



Special services unit

