

Translation

(1) 3. Supplement to the EC-Type Examination Certificate

(Supplement accordant with Annex III number 6)

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 13 ATEX G 001 X**
- (4) Equipment: **Transmitter type ITR 0*1*, ITR 0*2*, XTR 0*0*, XTR 0*1* and ETR 040* / 050***
- (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 supplement.
- (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. 41300313P NIV.
- (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 50104:2010
EN 50271:2010

This supplement to the 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 supplement to the 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 and for methanol in the measuring range 0 - 70 % LEL.

This supplement to the 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, acetic acid, 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 supplement to the EC-type examination certificate covers for types ETR 040* / 050* the measuring function for oxygen (measurement of inertisation) in the measuring range 0 - 5...25 % O₂. This supplement to the EC-type examination certificate covers for types ITR 0*1*, ITR 0*2*, XTR 0*0*, XTR 0*1* equipment with software-version 2.0.7 and for types ETR 040* / 050* equipment with software-versions 2.0.7 (main) and 3.1 (SIOS).

- (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 supplement to the 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 2nd supplement to PTB 11 ATEX 1005 X

DEKRA EXAM GmbH
Bochum, dated 29. June 2015

Signed: Siebrecht

Signed: Bredenbröker

Certification body

Special services unit

- (13) Appendix to
- (14) **3. Supplement to the EC-Type Examination Certificate
BVS 13 ATEX G 001 X**
- (15) 15.1 Subject and type

Transmitter types ITR 0*1*, ITR 0*2*, XTR 0*0*, XTR 0*1* and types ETR 040* / 050*

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

- | | |
|----------------|---|
| (1) E, I or X | Sensor interface: electrochemical (E), infrared (I) or catalytic (X) |
| (2) 4 or 5 | Material of housing: aluminium (4) or stainless steel (5) |
| (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) |
| 0 | DrägerSensor (internal sensor only)
for ETR 040* / 050* |
| (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

This supplement to the EC-type examination certificate concerns modifications of the software of the gas transmitters.

The transmitters ITR 0*1* (Polytron 8700 with Draeger PIR 7000 type 334), ITR 0*2* (Polytron 8700 with Draeger PIR 7000 type 340), XTR 0*0* (Polytron 8310 with Draeger Sensor IR) and XTR 0*1* (Polytron 8200 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.

The transmitters types ETR 040* / 050* (Polytron 8000 with DraegerSensor O₂ or DraegerSensor O₂ LS) are fixed equipment for the measurement of oxygen (measurement of inertisation) in the measuring range 0 - 5...25 %O₂. The sensors are directly fitted to the transmitter housing.

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 2nd supplement to the EC-type examination certificate PTB 11 ATEX 1005 X

- (16) Test and assessment report

PFG-no. 41300313P NIV as of 26/06/2015

2nd supplement to the EC-type examination certificate PTB 11 ATEX 1005 X as of 17/09/2012

(17) Special conditions for safe use

- see EC-type examination certificate PTB 11 ATEX 1005 X
- see 1st revision to EC-type examination certificate BVS 13 ATEX G001 X
- The safety related transmission of measured values via the HART interface is not subject of this supplement to the EC-type examination certificate. For the safety related transmission of measured values the 4 to 20 mA analog output shall be used.
- For transmitters types ETR 040* / 050* the operation with remote sensors is not subject of this supplement to the EC-type examination certificate.
- If operated with a relay module:
 - The main alarm shall be configured "latching" and "non-acknowledgeable" or "pre-acknowledgeable".
 - The pre-alarm shall only be configured "acknowledgeable" if it is used for operation of an acoustic alarm device.
- The measuring output shall be monitored for the signalisation of special states (currents between 0 and 3.5 mA). This is also required if the transmitter is operated with a relay module.
- The response times t_{20} of the transmitters types ETR 040* / 050* can exceed the limits of EN 50104 for small concentration changes.

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. June 2015
PFG-Kie/Bre

Certification body

Special services unit