Translation

(1) 2. Supplement to the 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 13 ATEX G 001 X**

(4) Equipment: **Transmitter types ETR 040* / 050***

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

(6) Address: **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 reports PFG-no. 41300313P NIII.

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

EN 50104:2010
EN 50271:2010

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 % O_2. This EC-type examination certificate covers equipment with software versions 1.5 (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 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 19. December 2014

Signed: Siebrecht
Certification body

Signed: Kiesewetter
Special services unit

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(13) Appendix to

(14) **2. Supplement to the EC-Type Examination Certificate**
BVS 13 ATEX G 001 X

(15) 15.1 Subject and type

Transmitter types ETR 040* / 050*

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

(1)	E	Sensor interface: electrochemical (E)
(2)	4 or 5	Material of housing: aluminium (4) or stainless steel (5)
(3)	0	DraegerSensor (internal sensor only)
(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 types ETR 040* / 050* (Polytron 8000 with DraegerSensor O_2 or DraegerSensor O_2LS) are fixed equipment for the measurement of oxygen (measurement of inertisation) in the measuring range 0 - 5...25 %O_2. 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 report

PFG-Nr. 41300313P NIII of 19/12/2014
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
- The HART interface is not subject of this supplement to the EC-type examination certificate.
- 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.
- Response times t_{20} can exceed the limits of EN 50104 at 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, 19. December 2014
PFG Kie/Ne

Certification body

Special services unit

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