



EC Type Examination Certificate

Equipment and protective systems intended for use in potentially explosive atmospheres –
Directive 94/9/EC

No. of EC Type Examination Certificate: **BVS 15 ATEX E 129 X**

Equipment type: **ATEX 1 xxx** Gas Detector for explosion-proof installation in Zone 1

ATEX 2 xxx Gas Detector for explosion-proof installation in Zone 2

xxx = depending on gas type

The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

The certification body of DEKRA EXAM Gmbh, notified body no.0158 in accordance with Article 9 of the Directive 94/9 of the European Parliament and 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 and assessment report BVS PP 15.2221EG.

The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 + A11:2013

General requirements

EN 60079-1:2007

Flameproof Enclosure 'd'

In the sign "X" is placed after the certificate number, it indicates, examination that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

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.

The marking of the equipment shall include the following:

EX II 2G EX d IIC T4 Gb



Appendix to

EC-Type Examination Certificate

BVS 15 ATEX E 129 X

Subject and type:

Gas Detector of type ATEX1 and ATEX2

The dots in the type designation refer to type definitions that do not impact the explosion protection.

Description:

The gas detector and its sensor consist of a sensor head with a sintered metal element and an equipment enclosure, both designed for the type of protection Flameproof Enclosure 'd'. The detector is used for detecting and warning of flammable and toxic gases in hazardous areas of temperature class T4.

The sensor head consists of a stainless steel enclosure with built-in electronic unit and a pellistor or an electro-chemical sensor behind a six 6 mm wide sintered metal element. The sintered metal element ensures the Flameproof Enclosure and simultaneously the supply of measuring gas.

On the opposite side of the enclosure the requirements for Flameproof Enclosure 'd' are met by potted wire bushing.

The sensor head is screwed in to a flameproof enclosure by means of a thread NPT 3/4", this enables the accommodation of the electronic evaluation unit and the terminals which are used to connect the supply voltage and the field devices.

The table below lists all used components certified according to previous versions of this standard.

Subject and type

Enclosure with window
Type XD-JB85win

Certificate

FTZU 05 ATEX 0262 U

Standard version

EN 60079-0:2009
EN 60079-1:2007

Parameters

Electrical data

Rated voltage	DC16-28V/AC 18V +/-20%, 50/60Hz
Rated current	DC 130mA
Rated power of enclosure	3,7W
Rated power of sensor head	1W
Ambient temperature range	-25C t +60C

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Test and assessment report

BVS PP 15.2221 EG, as of 2015-11-05

Special conditions for safe use

The measuring function for the explosion protection according to clause 1.5.5 of Annex II of Directive 94/9EC is not subject of this EC-Type Examination.

The widths and gaps of the flameproof joints of this apparatus are not identical with the respective minimum or maximum values required by Table 2 of EN 60079-1:2007.

If the joint-forming parts have to be repaired, the dimensions of the type as defined in the EC-Type Examination Certificates FTZU 05 ATEX 0262U (incl.supplements 1-5) and FTZU 07 ATEX 0002U (incl. supplements 1-3) are to be adhered to.

Date of issue:

4nd Dec.2015

Signed:


Ewert Johansson
Managing Director