


Translation

(1) 2nd Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC Supplement accordant with Annex III number 6
- (3) No. of EC-Type Examination Certificate: **BVS 08 ATEX E 089 X**
- (4) Equipment: **Vibration monitor type ESW[®]-HOL6../Ex...**
- (5) Manufacturer: **holthausen elektronik GmbH**
- (6) Address: **Wevelinghoven 38, 41334 Nettetal, 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 and Assessment Report BVS PP 08.2119 EG.
- (9) 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"
EN 60079-31:2009 Protection by enclosure "t"
- (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:

 **II 2G Ex d IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA EXAM GmbH
Bochum, dated 2015-03-18

Signed: Schumann

Certification body

Signed: Leiendecker

Special services unit

- (13) Appendix to
- (14) **2nd Supplement to the EC-Type Examination Certificate
BVS 08 ATEX E 089 X**
- (15) 15.1 Subject and type

Vibration monitor type ESW[®]-HOL6../Ex...

The dots of the type marking will be replaced by digits referring to the material used, the enclosure size and the location of the cable gland.

15.2 Description

The vibration monitor type ESW[®]-HOL6../Ex ... is manufactured to meet the requirements of the type of protection Flameproof Enclosure 'd' and Protection by Enclosure 'tb'. It is intended to protect machines against non-permissible vibration and for the use in atmospheres where combustible gases or dusts are present.

The reason for the supplement is the update of the used revision of the standards.

15.3 Parameters

15.3.1 Electrical parameters

Rated voltage	DC	24	V
Maximum voltage	DC	30	V
Rated power		2.5	W
Current of analogue output	up to	20	mA
Voltage of potential-free switch contact	up to	30	V
Current of potential-free switch contact	up to	1	A

15.3.2 Ambient temperature range -40 °C to +65 °C

(16) Test and Assessment Report


BVS PP 08.2119 EG as of 2015-03-18

(17) Special conditions for safe use

- 17.1 The dimensions of the flameproof joint are in parts different to the minimum and maximum dimensions required by EN 60079-1:2007. Information on the dimensions are to be obtained from the manufacturer.
- 17.2 The enclosure has to be integrated into the equipotential bonding of the machine to be monitored; this can be done either via the fastenings or via the existing connecting terminal.
- 17.3 The free cable end of the vibration monitor has to be connected either in an enclosure of one of the types of protection stated in sec. 1 of EN 60079-0:2012 or outside the explosive atmosphere.
- 17.4 If used in Zone 21 the installation of the connecting cable has to ensure that no electrostatic charge can lead to incendive discharges.

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, 2015-03-18
BVS-Pe/Ru/Ma A 20141088



Certification body



Special services unit

