(1) # EC-TYPE EXAMINATION CERTIFICATE

(2) **Equipment and protective systems intended for use in potentially explosive Atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 99ATEX7906** Issue Number: **2**

(4) Equipment: **Electronic Sounders BExS... Loudspeakers BExL... Appello Speech Sounders BExA... Sontel BExTS...**

(5) Manufacturer: **Pfannenberg GmbH**

(6) Address: **Werner-Witt-Str. 1, D-21035 Hamburg, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC 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 confidential test report number 212952300/2.

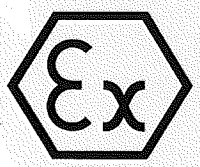
(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2006 **EN 60079-1 : 2007** **EN 60079-7 : 2003**

(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 schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the 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 2 G Ex d IIB or **IIC T4** or
II 2 G Ex de IIB or **IIC T4**

This certificate is issued on October 16, 2009 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

T. Pijpker
Certification Manager

PRODUCTS RvA C 001

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(13) # SCHEDULE

(14) **to EC-Type Examination Certificate KEMA 99ATEX7906** Issue No. **2**

(15) **Description**

The Electronic Sounders types BExS110D, BExS120D, BExS110E and BExS120E, Loudspeakers types BExL15D, BExL25D, BExL15E and BExL25E, Appello Speech Sounders types BExA110D, BExA120D, BExA110E and BExA120E, Sontel type BExTS110D, housed in aluminium enclosures in type of protection flameproof enclosure "d", are used to provide acoustic signals.
The Sounders, Loudspeakers and Appello Speech Sounders types BEx..E are additionally provided with a terminal compartment in type of protection increased safety "e".

Electrical data

Sounder type	Supply voltage	Supply current	Max. Supply power
BExS120D, BExS120E	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	850 / 800 / 420 mA or 200 / 180 / 90 mA	27 W
BExS110D, BExS110E	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	27 W
BExL25D, BExL25E	100 V (line) or 14.14 / 20 V (L.I. versions: 8 / 16 Ohms)		25 W
BExL15D, BExL15E	100 V (line) or 10.95 / 15.49 V (L.I. versions: 8 / 16 Ohms)		15 W
BExA120D, BExA120E	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	
BExA110D, BExA110E	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	
BExTS110D	110 / 115 / 230 Vac	93 / 110 / 56 mA	27 W

Marking

The relation between the type of Sounder, the ambient temperature range and the marking for gas application is given in the table below.

GAS		
Ambient temp.	-50 to +55 °C	-50 to +70 °C
BExS110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExS120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExS110E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExS120E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExL15D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExL25D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExL15E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExL25E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExA110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExA120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExA110E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExA120E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExTS110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4

(13) # SCHEDULE

(14) **to EC-Type Examination Certificate KEMA 99ATEX7906** Issue No. **2**

Installation instructions

The manual provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

KEMA No. 212952300/2.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 212952300/2.