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(1) **EC TYPE EXAMINATION CERTIFICATE**

(2) **Equipment or protective system intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC type examination certificate number: **ISSEP11ATEX040X**

(4) Equipment: Horn ETH 20MD
Loudspeaker AP 60MD

(5) Applicant – Manufacturer – ~~Authorized representative in the Community:~~
A.E.S. s.a.s

(6) Address: Via per S. Angelo 1
IT - 20098 S. GIULIANO MILANESE
Italy

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

(8) ISSEP, notified body n° 0492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 report no 10140.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2009 (IEC 60079-0: 2007) EN 60079-1 : 2007 (IEC 60079-1: 2007)
EN 60079-31: 2009 (IEC 60079-31: 2008)

(10) If the symbol "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following indications:

 II 2 G Ex d IIC or IIB+H2 T3 or T4 Gb
II 2 D Ex tb IIIC T150°C or T130°C Db
IP6X

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PUBLIC

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Colfontaine, 01.12.2011.



Marcel Lambert,
Manager.

This certificate may only be reproduced in its entirety and without any change, schedule included

(13)

SCHEDULE

(14) **EC TYPE EXAMINATION CERTIFICATE N^R ISSeP11ATEX040X**

(15) Description of the equipment:

This equipment consists of an aluminium alloy or cast iron or stainless steel flameproof enclosure containing the electrical & electronic units for ETH 20MD horn or AP 60MD loudspeaker and the connection facilities.

Temperature classes

The apparatus type AP 60 MD bears the code Ex d IIC or IIB+H2 T3 or Ex tb IIIC 150°C

The apparatus type ETH 20MD bears the code Ex d IIC or IIB+H2 T4 or Ex tb IIIC 130°C

Electrical characteristics

	Horn ETH 20MD	Loudspeaker AP 60MD
Voltage:	12 – 230 V AC /DC	0-100 V AC
Power:	4 or 10 W	30W

Eventual prescriptions

Ambient temperature ranges: -50°C up to +60°C

Routine tests

The manufacturer shall make the routine verifications and tests to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype. The flameproof enclosure of this apparatus shall be submitted to the overpressure routine test under the value of 1875 kPa.

(16) Report no 10140 of 1.12.2011 composed in total of 25 pages.

The technical note from the manufacturer - document reference GM1/ETH20MD – dated 15.09.2011 (3 pages)

The data sheets of the cementing material and sealing gasket (6 pages)

The certificate related to the sintered metal element (1 page)

The installation and maintenance instruction from the manufacturer (2 sheets)

The drawings

102/99 Rev 1 of 3.10.2010

103/99 of 20.11.1998

104/99 of 3.10.2010

105/99 of 20.11.1998

106/99 of 23.11.1998

ETH 20 of 8.07.2010

(17) Special conditions for safe use: Symbol X

Any accumulation of dust shall be avoided on the enclosure

The cable gland shall maintain the degree of protection IP6X

(18) Essential Health and Safety Requirements: covered by the standards listed at point 9 of the certificate and by the descriptive documents of the manufacturer.