

According to Construction Products Regulation EU N° 305/2011

**1. Unique Product identification code:**

A228EN

**2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):**

Code	Model	Description
A228EN	A-228EN	Ceiling speaker, 8", 20W, RAL9016, metal, with firedome and WAGO connector 221, certified EN 54-24, IP21C, 1438/CPR/0736

**3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:**

Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008

**4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):**

OPTIMUS, S.A.  
C/ Barcelona 101,  
E-17003 – GIRONA  
SPAIN  
Tel: +34 972 203 300  
Fax: +34 972 218 413

Email: [girona@optimus.es](mailto:girona@optimus.es)  
[www.optimusaudio.com](http://www.optimusaudio.com)



Joaquim Pla Olivé  
Managing Director

18.12.2020

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**5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):**

Not applicable

**6. System or systems of assessment and verification of constancy of performance of the construction product:**

System 1

**7. Declaration of performance concerning a construction product covered by the harmonized standard:**

Jednostka Certyfikująca | Certification Department  
Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej  
Państwowy Instytut Badawczy (CNBOP-PIB)  
ul. Nadwiślańska 213, 05-420 Józefów, Poland  
tel: (+48) 22 76 93 319, (+48) 22 76 93 345  
fax: (+48) 22 76 93 356

performed type testing and the initial inspection of the manufacturing plant and of the factory production control with continuous surveillance assessment and approval of the factory production control and issued the EC certificates of conformity:



EC Certificate of Conformity 1438/CPR/0736

**8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:**

Not applicable, see item 7

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## 9. Declared performance:

All requirements including all essential characteristics and corresponding performances for the intended use or uses indicated in point 3 have been determined as described in the EN mentioned in the table below.

Essential characteristics	Performance	Harmonized technical specification
Scattering (frequency range / sensitivity)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.2
Nominal impedance	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.3
Horizontal and vertical dispersion angle	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.4
Maximum sound pressure level	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.5
Nominal noise performance (durability)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.6
Dry heat (operating)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.7
Dry heat (endurance)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.8
Cold (in operation)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.9
Damp heat, cyclic (operating)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.10
Damp heat, steady state (endurance)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.11
Damp heat, cyclic (fatigue test)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.12




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Essential characteristics	Performance	Harmonized technical specification
Sulfur dioxide (SO <sub>2</sub> ) corrosion (endurance)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.13
Shock (operating)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.14
Impact (operating)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.15
Sinusoidal vibration (operating)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.16
Vibration, sinusoidal (endurance)	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.17
Enclosure testing	passed	Fire detection and fire alarm systems – Part 24: Components of voice alarm systems – Loudspeakers; EN 54-24:2008, Section 5.18

**10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.**

**This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.**




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