

## BRE Global Ireland

**Notified Body No. 2831**  
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### Certificate of constancy of performance 2831-CPR-F4385

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9th March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s).

#### ARF-WL8-OV Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD

(For full product details and conditions of use refer to appendix)

Placed on the market under the name or trademark of: and produced in the manufacturing plant(s):

ASI Oy Ltd  
Laitaatsillantie  
Savonlinna  
57170  
Finland

ASI Oy Ltd  
Laitaatsillantie 3  
Savonlinna  
57170  
Finland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 54-3:2001 + A1:2002 + A2:2006 – Sounders  
EN 54-7:2018 - Smoke detectors - Point detectors  
EN 54-23:2010 - Visual alarm devices  
EN 54-25:2008 - Components using radio links

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure

#### the constancy of performance of the construction product.

This certificate was first issued on 21 May 2020 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



Z Major, Certification Engineer

On behalf of BRE Global Assurance (Ireland) Limited

Date of First Issue: 21 May 2020

Issue Date: 02 May 2024

Issue Number: 06

To check the validity of this certificate, please contact us on +353 (0) 18824344 or email [enquiries@breglobalireland.ie](mailto:enquiries@breglobalireland.ie)

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**APPENDIX to Certificate of constancy of performance: 2831-CPR-F4385****ARF-WL8-OV Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD****Variants:**

EK-WL8-OV – (EKHO Brand)  
KM-WL8-OV – (K-Mesh Brand)

**Notes:**

1. Meets the requirements of EN 54-3 for the following tones:

Default messages loaded by manufacturer are the following:

- a) Tone intermittent (925 Hz: 250 ms / 628 Hz: 250 ms, s01)
- b) Voice message 2 (A fire incident has been reported in the building. Please remain calm, leave the building immediately by the nearest exit.) synchronised, (sequence and timing:  
Attention-drawing signal: 4.5 s / Silence: 1.5 s / Voice message: 8.25s / Silence: 1.75 s)
- c) Voice message 3 (A fire has been reported. Please stay where you are and await further instructions.) synchronised, (sequence and timing:  
Attention-drawing signal: 2 s / Silence: 0.3 s / Voice message: 5.4 s / Silence: 0.3 s)

Additional approved tones for WL8-OV device are the following:

- d) Din tone (sweep 1200Hz to 500 Hz in 1s - WL8-OVR message 1, s45)
- e) Continuous (3500 Hz, s52)
- f) ISO8201 (3x500ms 2500 Hz pulsed, 1.5s silence)
- g) Voice message 4 (Fire! Fire! Please leave the building by the nearest exit)
- h) Voice message 5 (Fire! Fire! Please leave the building by the central exit)

2. Approved to EN54-7 at the following sensitivity settings:

- High
- Normal
- Low

3. The device must be used with the following batteries only:

- Primary – CR123A (3V)
- Secondary – CR123A (3V)



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### ARF-WL8-OV Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD

4. The Ceiling mounted VAD meets the requirements of EN 54-23 for the following:
- Category rating C-3-7.5, O-4.4-7.5
  - Synchronization
  - Flash rate 0.5Hz
  - White LED



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