

# UKCA Certificate of Constancy of Performance

This is to certify that: Ambient-System Sp. z o.o.  
Bysewska 27  
Gdańsk  
Pomorskie  
80-298  
Poland

Holds Certificate Number: 0086 CPR 760873

In respect of:

**BS EN 54-16 : 2008 – Voice alarm control and indicating equipment and  
BS EN 54-4:1997 – Fire detection and fire alarm systems - Part 4: Power supply equipment**

In compliance with the Regulation (UK) Statutory Instrument 2019 No 465 of the United Kingdom Parliament (Construction Products (Amendment etc.) (EU Exit) Regulations or CPR), this certificate applies to the above construction product. This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standard(s) 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 the date below and will remain valid as long as neither the designated standard, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the approved product certification body.

For and on behalf of BSI, an Approved Body for the above Regulation (Approved Body Number 0086):

Frank Lee, Product Certification Technical and Compliance Director

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Manufacturing Plant: Ambient-System Sp. z o.o.  
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**BS EN 54-16 : 2008 – Voice alarm control and indicating equipment and  
BS EN 54-4:1997 – Fire detection and fire alarm systems - Part 4: Power supply equipment**

## Product Information

Model Reference	Type
miniVES	Voice Alarm and Control and Indicating Equipment with integrated PSE with maximum battery capacity 42 Ah.
midIVES	Voice Alarm and Control and Indicating Equipment with integrated PSE with maximum battery capacity 65 Ah.

Incorporating the following modules:

### Amplifiers:

2x160W RMS Amplifier  
2x320W RMS Amplifier  
3x500W RMS Amplifier (midIVES)

Emergency microphones:

ABT-DFMS with extension type ABT-EKB-20M

### Others:

miniVES 2001- 2xAB (4 lines); amp 2x160W (inc. spare amp.); total audio load 320W; 1xAudio input, 7 logical inputs, 3 logical outputs, network card, charger; w/o batteries, wall mounted

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miniVES 2001 R- 2xAB (4 lines); amp 2x160W (inc. spare amp.); total audio load 320W; 1xAudio input, 7 logical inputs, 3 logical outputs, network card, charger; w/o batteries, Rack mounted – 4RU

miniVES 2001 L - 2xAB (4 lines); amp 2x160W (inc. spare amp.); total audio load 320W; 1xAudio input; LCD, 7 logical inputs, 3 logical outputs, network card, fireman mic.; charger; w/o batteries, wall mounted

miniVES 2001 N - 2xAB (4 lines); amp 2x160W (inc. spare amp.); total audio load 320W; 1xAudio input, 7+2 logical inputs, 3+2 logical outputs, fibre network card; charger; w/o batteries, wall mounted

miniVES 2001 LN - 2xAB (4 lines); amp 2x160W (inc. spare amp.); total audio load 320W; 1xAudio input; LCD, 7+2 logical inputs, 3+2 logical outputs, fibre network card, fireman mic.; charger; w/o batteries, wall mounted

miniVES 4001- 4xAB (8 lines); amp 2x320W (inc. spare amp.); total audio load 640W; 1xAudio input, 7 logical inputs, 3 logical outputs, network card; charger; w/o batteries, wall mounted

miniVES 4001 R - 4xAB (8 lines); amp 2x320W (inc. spare amp.); total audio load 640W; 1xAudio input; LCD, 7 logical inputs, 3 logical outputs, network card; charger; w/o batteries, Rack mounted – 4RU

miniVES 4001 L - 4xAB (8 lines); amp 2x320W (inc. spare amp.); total audio load 640W; 1xAudio input; LCD, 7 logical inputs, 3 logical outputs, network card, fireman mic.; charger; w/o batteries, wall mounted

miniVES 4001 N - 4xAB (8 lines); amp 2x320W (inc. spare amp.); total audio load 640W; 1xAudio input, 7+2 logical inputs, 3+2 logical outputs, fibre network card; charger; w/o batteries, wall mounted

miniVES 4002 - 4xAB indep. (8 lines); amp. 2x320W (inc. spare amp.) total audio load 640W; 1xAudio input, 7 logical inputs, 3 logical outputs; charger; w/o batteries, wall mounted

miniVES 4002 R - 4xAB indep. (8 lines); amp. 2x320W (inc. spare amp.) total audio load 640W; 1xAudio input, 7 logical inputs, 3 logical outputs, network card; charger; w/o batteries, Rack mounted – 4RU

miniVES 4002 L - 4xAB indep. (8 lines); amp. 2x320W (inc. spare amp.) total audio load 640W; 1xAudio input; LCD, 7 logical inputs, 3 logical outputs, fireman mic.; charger; w/o batteries, wall mounted

miniVES 4002 N - 4xAB indep. (8 lines); amp. 2x320W (inc. spare amp.) total audio load 640W; 1xAudio input, 7+2 logical inputs, 3+2 logical outputs, fibre network card, charger; w/o batteries, wall mounted

miniVES 4002 LNR - 4xAB indep. (8 lines); amp. 2x320W (inc. spare amp.) total audio load 640W; 1xAudio input; LCD, 7+2 logical inputs, 3+2 logical outputs, fibre network card, fireman mic.; charger; w/o batteries, Rack mounted – 4RU

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miniVES 4002 LN - 4xAB (8 lines); amp 2x320W (inc. spare amp.); total audio load 640W; 1xAudio input; LCD, 7+2 logical inputs, 3+2 logical outputs, fibre network card, fireman mic.; charger; w/o batteries

miniVES 8003 L - 8xAB (16 lines); amp 3x500W (inc. spare amp.); total audio load 1500W; 1xAudio input; LCD, 7 logical inputs, 3 logical outputs, network card, fireman mic.; charger; w/o batteries; wall mounted

miniVES 8003 LN - 8xAB (16 lines); amp 3x500W (inc. spare amp.); total audio load 1500W; 1xAudio input; LCD, 7+2 logical inputs, 3+2 logical outputs, fibre network card, fireman mic.; charger; w/o batteries; wall mounted

miniVES 8003 LR- 8xAB (16 lines); amp 3x500W (inc. spare amp.); total audio load 1500W; 1xAudio input; LCD, 7 logical inputs, 3 logical outputs, network card, fireman mic.; charger; w/o batteries; Rack mounted – 4RU

miniVES 8003 LNR - 8xAB (16 lines); amp 3x500W (inc. spare amp.); total audio load 1500W; 1xAudio input; LCD, 7+2 logical inputs, 3+2 logical outputs, fibre network card, fireman mic.; charger; w/o batteries; Rack mounted – 4RU

miniVES 8003 R - 8xAB (16 lines); amp 3x500W (inc. spare amp.); total audio load 1500W; 1xAudio input; w/o LCD, 7 logical inputs, 3 logical outputs, network card, w/o fireman mic.; charger; w/o batteries; Rack mounted – 4RU

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## **Cabinets:**

Rack mounted type ZPAS 19" for miniVES 2001 R, 4001 R, 4002R, 4002LNR, midiVES 8003LR, 8003 R:350 x 440 x 176 mm

Wall-mounted: miniVES 2001, 2001L, 2001N, 2001LN, 4001, 4001L, 4001N, 4001LN, 4002, 4002L, 4002N, 4002LN, DFMS BOX, DFMS-BOX-L, midiVES 8003L, 8003LN : 350 x 440 x 525 mm

ABT-CEXT: 350 x 440 x 280 mm

ABT-DFMS: 210 x 150 x 55 mm

ABT-EKB-20M: 210 x 120 x 55 mm

ABT-DMS: 210 x 120 x 55 mm

ABT-DMS-LCD: 210 x 150 x 55 mm

RedBox 300, RedBox 300HC: 300 x 310 x 150 mm

Mini clear door: 454 x 400 x 100



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Certified with the following options with requirements from BS EN 54-16:

- 7.4 Delay(s) to entering the voice alarm condition
- 7.5 Phased evacuation
- 7.6.2 Manual silencing of the voice alarm condition
- 7.7.2 Manual reset of the voice alarm condition
- 7.9 Voice alarm condition output
- 8.3 Indication of faults related to the transmission path to the CIE
- 8.4 Indication of fault related to voice alarm zones
- 9 Disabled condition
- 10 Voice alarm manual control
- 12 Emergency microphone
- 13.14 Redundant power amplifier



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## Appendix 1

Harmonised Technical Specification		BS EN 54-16: 2008
Essential Characteristics	Performance	Clause
<b>Performance Parameters Under Fire Conditions</b>		
Performance under fire condition	Pass	4, 5, 7, 10, 12, 16.5, 16.6, 16.7
<b>Operational Reliability</b>		
Response delay (response time to fire)	Pass	7.1, 7.4, 7.8, 12
Operational reliability		4, 5, 6, 7, 8, 9, 11, 12, 13, 14
<b>Durability of Operational Reliability</b>		
Durability of operational reliability: Temperature resistance	Pass	16.4, 16.8
Durability of operational reliability: Impact and vibration resistance	Pass	16.11, 16.12, 16.13
Durability of operational reliability: Humidity resistance	Pass	8.3.12, 8.3.13, 8.3.14
Durability of operational reliability, Corrosion resistance	Pass	16.9, 16.10
<b>Durability of Electrical Stability</b>		
Durability of operational reliability: Electrical stability	Pass	16.14, 16.15

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## Appendix 2 (continued)

Harmonised Technical Specification		EN 54-4:1997+A1 & A2
Essential Characteristics	Performance	Clause
<b>Performance of Power Supply</b>		
General requirements	Pass	4
Functions	Pass	5
Materials, design and manufacture	Pass	6
<b>Operational Reliability</b>		
General requirements	Pass	4
Functions	Pass	5
Materials, design and manufacture	Pass	6
Documentation	Pass	7
Marking	Pass	8
<b>Durability of Operational Reliability</b>		
Cold (operational)	Pass	9.5
Damp heat, steady state (operational)	Pass	9.6
Impact (operational)	Pass	9.7
Vibration, sinusoidal (operational)	Pass	9.8
Electromagnetic Compatibility (EMC),Immunity tests (operational)	Pass	9.9
Damp heat, steady state (endurance)	Pass	9.14
Vibration, sinusoidal (endurance)	Pass	9.15

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