

UKCA Certificate of Constancy of Performance

This is to certify that:

Argus Security Srl
Via del Canneto, 14
Valle delle Noghere
Muggia
Trieste
34015
Italy

Holds Certificate Number:

0086 CPR 746289

In respect of:

**BS EN 54-3:2001 Fire Alarm Devices – Sounders
and BS EN 54-25: 2008 Fire detection & fire alarm systems - Components using radio links**

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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the approved product certification body.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:

Argus Security Srl
Via del Canneto, 14
Valle delle Noghère
Muggia
Trieste
34015
Italy

**BS EN 54-3:2001+A1:2002+A2:2006 Fire Alarm Devices – Sounders
and BS EN 54-25:2008+AC:2012 Fire detection and fire alarm systems – Components using radio
links**

Product Information

Model Reference	Type
SGWS-MOD + CWS100	Sagittarius Type B (Outdoor use) wall sounder

Tone patterns in compliance with EN 54-3:

Tone 1: Warble Tone. 800 Hz for 500ms then 1000Hz for 500 ms;
Tone 2: Continuous Tone. 970 Hz continuous tone;
Tone 3: Slow Whoop (Dutch). 500-1200Hz for 3500 ms, then off for 500 ms;
Tone 4: German DIN tone. 1200-500 Hz swept every 1000 ms (1Hz).

Technical characteristic wireless base:

- Main board Pcb n. B40-ISWSM-0002;
- Battery 2 x CR123A Lithium 3 V 1.25Ah;
- Hardware Identifications: ST, STM32L051R8;
- Firmware Identifications: 1.4;
- CRC-32 Identifications: 629839F6 (hex).

Technical characteristic Sounder alarm device:

- Main board Pcb n. B20-CWS1X-0002.

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Model Reference	Type
SGRBS100-L	Type A (Indoor use) Wireless sounder base
SGRBS100-L/AV	Type A (Indoor use) Wireless sounder base with visual indicator

Configuration:

The sounder model SGRBS100-AV/L consists of a plastic enclosure (dimensions: 120 (d) x 52 (h) mm) with IP21C degree of protection, containing:

- No. 1 Main board (PCB code B40-SGRB2-0004);
- No. 1 Piezoelectric buzzer (trademark Cranford Controls Ltd., model PZ118_005W v1);
- No. 1 bicolour red - green LED (trademark, Kingbright, model L-59SURKVGAW PTH Led);
- No. 2 Battery allocable (CR123A Lithium, 3 V – 1.2Ah).

SGRBS100/L is identical to SGRBS100-AV/L without supplementary visual indicator.

Technical Characteristics:

- Tone patterns in compliance with EN 54-3:
- Warble Tone: 800 Hz for 500 ms then 1000 Hz for 500 ms;
- Continuous tone: 970 Hz continuous;
- Slow Whoop (Dutch): 500-1200 Hz for 3500 ms, then off for 500 ms;
- German DIN tone: 1200-500Hz swept every 1000 ms (1Hz);
- Destination for use: Type A (for internal);
- Operating frequency band: 868 MHz ;
- Hardware identification of the microcontroller used on the main board:
- Microchip PIC18F1320;
- Firmware identification of the microcontroller used on the main board:
- Sirena_r_CC1120_V7p9_20170321.HEX crc16: 0xEE51.

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Model Reference	Type
TW-MWSO-01 + CWS100	Taurus Type B (Outdoor Use) wall sounder in Red enclosure
TW-MWSO-01 + CWS100(W)	Taurus Type B (Outdoor Use) wall sounder in White enclosure

Configuration:

The product consists of a red or white plastic enclosure (dimensions: 130 (d) x 90 (h) mm) with IP33C degree of protection, which contains a:

- Wireless module model TW-MWSO-01, containing:
 - No. 1 Main board (PCB code B40-ISWSM-0002);
 - No. 2 Battery allocable (CR123A Lithium, 3 V – 1.25Ah);
- Sounder models CWS100 and CWS100(W), containing:
 - No. 1 Main board (PCB code B20-CWS1X-0002);
 - No. 1 Piezoelectric buzzer;

Technical Characteristics:

- Tone patterns in compliance with EN 54-3:
 - Warble Tone: 800 Hz for 500 ms then 1000 Hz for 500 ms;
 - Continuous tone: 970 Hz continuous;
 - Slow Whoop (Dutch): 500-1200 Hz for 3500 ms, then off for 500 ms;
 - German DIN tone: 1200-500Hz swept every 1000 ms (1Hz);
- Destination for use: Type B (for external);
- Operating frequency band: 868 MHz ; 916 MHz;
- Hardware identification of the microcontroller (U5) used on the main board (PCB code B40-ISWSM-0002):
 - STMicroelectronics, STM32L051R8;
 - Firmware identification of the microcontroller (U5) used on the main board (PCB code B40-ISWSM-0002):
 - 0_1_12, using the 868 MHz frequency band;
 - 0_1_13, using the 916 MHz frequency band.

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Model Reference	Type
TW-BS-01	Type A (Indoor use) Taurus Wireless sounder base

Configuration:

The sounder model TW-BS-01 consists of a plastic enclosure (dimensions: 129 (d) x 55 (h) mm) with IP21C degree of protection, containing:

- No. 1 Main board (PCB code B40-TWBSX-0002);
- No. 1 Piezoelectric buzzer (trademark Kingstate, model KBIG5010N08028AZ);
- No. 2 Battery allocable (CR123A Lithium, 3 V – 1.25Ah).

Technical Characteristics:

- Tone patterns in compliance with EN 54-3:
- Warble Tone: 800 Hz for 500 ms then 1000 Hz for 500 ms;
- Continuous tone: 970 Hz continuous;
- Slow Whoop (Dutch): 500-1200 Hz for 3500 ms, then off for 500 ms;
- German DIN tone: 1200-500Hz swept every 1000 ms (1Hz);
- Destination for use: Type A (for internal);
- Operating frequency band: 868 MHz ; 916 MHz;
- Hardware identification of the microcontroller (U4 and U5) used on the main board:
- Texas Instruments, MSP430G2433 (U4);
- STMicroelectronics, STM32L051K86 (U5);
- Firmware identification of the microcontroller (U4 and U5) used on the main board:
- 1_0_1 (U4) ; 0_1_14 (U5), using the 868 MHz frequency band;
- 1_0_1 (U4) ; 0_1_14 (U5), using the 916 MHz frequency band.

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Appendix 1

Harmonised Technical Specification		BS EN 54-3: 2001+A1:2002 +A2:2006
Essential Characteristics	Performance	Clause
Performance Parameters Under Fire Conditions		
Sound level	Pass	4.2
Frequencies and sound pattern	Pass	4.3
Reproducibility	Pass	5.2
Operational performance	Pass	5.3
Operational Reliability		
Durability	Pass	4.4 & 5.4
Construction	Pass	4.5
Marking and data	Pass	4.6
Durability of Operational Reliability		
Dry heat (operational)	Pass	5.5
Dry heat (endurance)	Pass	5.6
Cold (operational)	Pass	5.7
Damp heat, cyclic (operational)	Pass	5.8
Damp heat, steady state (endurance)	Pass	5.9
Damp heat, cyclic (endurance)	Pass	5.10
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	5.11
Shock (operational)	Pass	5.12
Impact (operational)	Pass	5.13
Vibration, sinusoidal (operational)	Pass	5.14
Vibration, sinusoidal (endurance)	Pass	5.15
Durability of Operational Reliability, Electrical Stability		
Electromagnetic compatibility (EMC) immunity (operational)	Pass	5.16
Durability of Operational Reliability, Resistance to Ingress		
Enclosure protection	Pass	5.17

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Appendix 2

Harmonised Technical Specification		BS EN 54-25: 2008
Essential Characteristics	Performance	Clause
Operational Reliability		
Operational reliability	Pass	4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8, 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6
Performance Parameters Under Fire Conditions		
Performance parameters under fire conditions	Pass	4.1, 4.2.2, 5.2, 8.3.7
Response delay (response time to fire)		8.2.3, 8.2.6
Durability of Operational Reliability		
Operational reliability	Pass	4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8, 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6
Durability of operational reliability, Temperature resistance	Pass	8.3.9, 8.3.10, 8.3.11
Durability of operational reliability, Vibration resistance	Pass	8.3.16, 8.3.17 to 8.3.19
Durability of operational reliability, Humidity resistance	Pass	8.3.12, 8.3.13, 8.3.14
Durability of operational reliability, Corrosion resistance	Pass	8.3.15
Durability of Electrical Stability		
Durability of operational reliability, Electrical stability	Pass	8.3.20

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