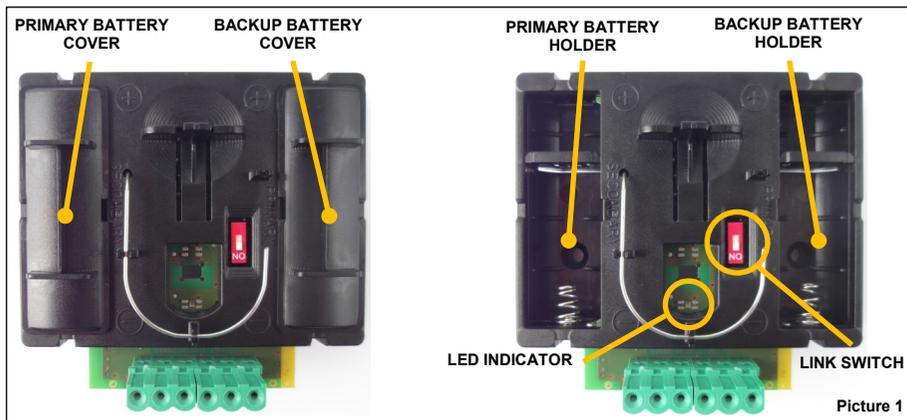


# SGWS-MOD

## SAGITTARIUS WALL SOUNDER MODULE

### OVERVIEW

This add-in interface module permits to use the **CWS100** and **CWS100-AV** conventional sounders in a wireless Sagittarius system.



Picture 1

### COMPATIBILITY

This module is compatible only with:

- Wireless systems based on the Sagittarius protocol.
- **CWS100** and **CWS100-AV** conventional sounders.

For more specific information regarding compatibility refer to your fire security system supplier.

### INSTALLATION - IMPORTANT NOTES

This module must be installed according precisely to the procedures described in this manual.

Test the **SGWS-MOD - CWS100 / CWS100-AV** assembly after installation.

### ABOUT THIS MANUAL

This manual intends to give installation instructions as much as possible limited only to the **SGWS-MOD**. For specific installation instructions about the **CWS100** and **CWS100-AV** refer to their manuals:

**CWS100** installation instructions code: **L20-CWSXX-0001**

**CWS100-AV** installation instructions code: **L20-CWSVX-0001**

### BEFORE INSTALLING THE MODULE

- 1) Detach the front operating section from the sounder back box (as per **CWS100 / CWS100-AV** manuals).
- 2) Fix the sounder back box to the wall (as per **CWS100 / CWS100-AV** manuals).
- 3) Extract the battery covers.
- 4) Power-up the module (**POWER-UP**).
- 5) Link the module to the Sagittarius wireless system (**LINKING**).
- 6) Tag device's loop and address data on the device itself (**IDENTIFICATION**).
- 7) Check the **WIRELESS LINK QUALITY**.

Table 1

Module's status	Green LED	Red LED
Power up	1 second green, then 0.5 second red for 4 times	
Linking to the system	Blinking until linking is completed	
Normal condition	-	-
Main battery fault	-	0.5 second on and 10 seconds off (orange tonality)
Secondary battery fault	0.5 second on and 10 seconds off	
Both batteries fault	-	0.5 second on and 10 seconds off (orange tonality)
Lost link with wire to wireless translator / wireless expander	0.5 second green and red (amber) and 1 second off	

### LED INDICATOR

Provides visual indication for functional conditions and battery levels as indicated in table 1.

### POWER-UP

- 1) Move the link switch to position ON.
- 2) Insert the backup battery into its holder (**battery polarity must be correct !**).
- 3) Insert the primary battery into its holder (**battery polarity must be correct !**); LED indicator signals "power up".

### LINKING

The system is waiting to achieve a wireless child device (for further information refer to the translator's or the Wirelex configuration software's literature):

- 1) Move the link switch's cursor from ON to the opposite side of its run (we will call it BLANK, since it carries no indication). LED indicator signals "Linking to the system".

Linking is successful when:

- a) the translator indicates so (check translator's literature)
- OR
- b) the Wirelex software indicates so (check the Wirelex's literature).

If linking is unsuccessful:

- 2) Check if evident mistakes were made.
- 3) Perform the **LINKING RECOVERY**.

### LINKING RECOVERY

- 1) Take out the primary battery from its holder.
- 2) Move alternatively the link switch to ON / BLANK five times.
- 3) Move the link switch to ON.
- 4) Insert the primary battery into its holder (**battery polarity must be correct !**).
- 5) Perform the **LINKING** procedure.

### IDENTIFICATION

It is possible to write down the analogue loop's number and address on its suitable module's label for identification purposes.

### WIRELESS LINK QUALITY

It is possible to check wireless link quality between the sounder module and its linked-to translator or expander in this way:

- 1) Move the link switch to the ON position.
- 2) Module's LED indicator will start blinking according to the following table:

LINK QUALITY	EVALUATION	DEVICE'S INDICATION
No connection	Fail	Two red blinks
Link margin is less than 10 dB	Poor	One red blink
Robust communication with link margin from 10 dB to 20 dB	Good	One green blink
Robust communication with link margin over 20 dB	Excellent	Two green blinks

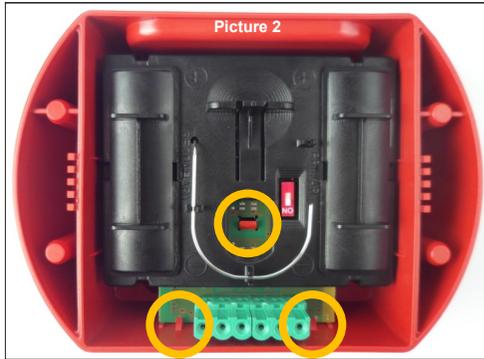
Table 2

- 3) Move the link switch to position BLANK again; device will NOT WORK if the link switch is on position ON !

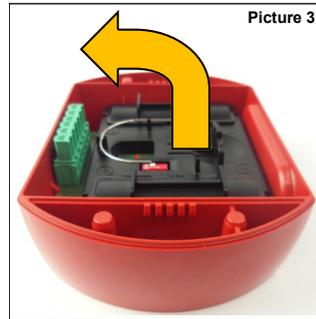
**!** From the moment you switch on BLANK to the moment linking comes to an end, the detector must be only a few inches away from the translator or expander you are linking to.

### MODULE'S INSTALLATION

- 1) Reinstall the battery covers.
- 2) Insert the terminal edge of the module between the securing points on the wall of the back box.
- 3) Gently push down the module body so that the locking catch engages fully to hold the PCB in place. Check that it feels secure.



**!** When assembling or removing the front operating section of the sounder to/from the back box be careful to ensure the interconnection block is not twisted which may cause damage. Perform such operations without using excessive force.



### MODULE'S EXTRACTION

- 1) Gently release the locking catch allowing the module to lift and rotate to release from the side wall.
- 2) Remove the module.

### BEFORE CLOSING UP THE SOUNDER

- 1) Set the output tone (as per **CWS100** / **CWS100-AV** manuals).
- 2) Set the output volume (as per **CWS100** / **CWS100-AV** manuals).

### TESTING

- 1) Activate the alarm condition on the control panel.
- 2a) Check the acoustic output activation.
- 2b) Check the visual alarm output activation (**SGWS-MOD + CWS100-AV** assembly only).
- 3) Reset the system from the control panel.

**All devices must be tested after installation and, successively, on a periodic basis.**

### TECHNICAL SPECIFICATIONS (SGWS-MOD + CWS100)

Acoustic emission frequency range. Valid for all tones	440 - 2900 Hz
Maximum acoustic intensity, volume set to HIGH. Valid for all tones	100 dB(A) ± 3
Tolerated temperature range	-25 °C / +70 °C
Maximum tolerated humidity	85% RH (without condensation)
Height	185 mm
Diameter	130 mm
Weight	350 g

### TECHNICAL SPECIFICATIONS (SGWS-MOD + CWS100-AV)

Acoustic emission frequency range. Valid for all tones	440 - 2900 Hz
Maximum acoustic intensity, volume set to HIGH. Valid for all tones	100 dB(A) ± 3
Visual Alarm Device (VAD) frequency	0.5 Hz
Tolerated temperature range	-25 °C / +70 °C
Maximum tolerated humidity	85% RH (without condensation)
Height (base included)	192 mm
Diameter	130 mm
Weight	380 g

### WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation.

Smoke detectors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Detectors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions.

Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

### WARRANTY

All devices are supplied with the benefit of a limited 3 year warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and product's returns policy can be obtained upon request.