

ZSM-1050

MESSAGE PROGRAMMER, EVENTS AND
BACKGROUND MUSIC PLAYER
WITH 4 OUTPUT ZONES

INSTRUCTION MANUAL



FONESTAR

TABLA DE CONTENIDO

- Security and Environment.....	3
- Significance of the symbols on the machine.....	4
1. Description.....	5
2. Basic steps recommended for installation/configuration of ZSM devices.....	5
3. New connections.....	6
Access data.....	6
Options.....	7
Groups.....	7
Select device in LAN.....	7
4. Basic controls.....	8
Icon buttons.....	8
Right click on the device.....	8
5. Configuration.....	9
General.....	9
Inputs/Outputs.....	10
Audio.....	10
Communications.....	11
SIP.....	12
6. File manager.....	12
Background music.....	13
Messages.....	14
Alarms.....	14
7. Background music.....	15
8. Scheduled messages.....	16
New message.....	16
9. Alarms.....	17
Alarm configuration.....	18
10. Direct messages.....	19
New direct message.....	19
11. Dashboard window.....	20
12. Exporting and importing.....	21
Export.....	21
Import.....	24
13. Updating.....	28
Remote method (Internet or LAN).....	28
14. Local control of ZSM-1050 device.....	30
15. Controls and functions.....	38
16. Technical specifications.....	39
Warranty.....	40

We take this opportunity to thank you for buying this product.

We recommend you read the instruction manual before switching on the machine and follow the instructions that are given. Keep the manual for future reference.

SECURITY AND THE ENVIRONMENT

ELECTRICAL SECURITY

Check that the current in the mains connection where the machine is to be installed corresponds to the power supply of the machine.

To avoid damaging the equipment, electrical shocks, fire or physical injury when you connect or disconnect the equipment from the power supply, pull the plug firmly out of the mains socket holding the plug, never the cable.

Always do this with dry hands.

Keep the power supply cable far from sources of heat. Do not put heavy objects on top of it or change it.

Clean dust and dirt off the power supply cable regularly.

Do not open the machine; you could get an electric shock.

CAUTION

While installing the machine, make sure it is switched off and unplugged.

Do not open the machine. Touching the internal parts is dangerous and you could receive an electric shock.

The machine must not be splashed or dripped on. Never place recipients with liquid inside on the machine.

Do not place anything inside the machine.

LOCATION

Place the equipment on a horizontal surface with enough space around it to allow ventilation.

Avoid direct sunlight, heat sources and excessive dust.

Do not place the machine near magnetic fields or static electricity.

Do not use surfaces which vibrate or receive impact.

Do not pile machines on top of one another.

VENTILATION

Never block or cover the ventilation slits on the machine.

Do not expose it to direct sunlight or place it near sources of heat.

PERIODS OF INACTIVITY

When the machine is not going to be used for a long period of time, disconnect it from the mains.

If you are using an adapter, take into account that it will continue using electricity even if the machine is switched off. If it is not going to be used for a long period of time, disconnect it from the mains.

THE ENVIRONMENT

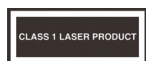
To save energy, switch the machine off when you are not going to use it for a long time. The machine could contain substances that are harmful to the environment or human health. To minimize the effect of these substances the machine must be correctly managed and recycled when you decide to dispose of it.

When you dispose of it remember: it cannot be thrown into a conventional rubbish bin.

If it contains or uses batteries, these must be disposed of separately.

The machine (without batteries) must be disposed of correctly. Put it in a container specially intended for the collection of electronic and electrical appliances, at the dump or hand it over to the dealer when you purchase similar equipment, so that the dealer can dispose of it correctly (at no added cost).

SIGNIFICANCE OF THE SYMBOLS ON THE MACHINE*



The symbol formed by the expression “Class 1 laser product” written in a rectangle indicates that visible or invisible laser radiation could be produced. Avoid direct expose to the laser.



The symbol formed by a ray of lightening inside a triangle shows that the machine has connection terminals or a circuit with areas with a current which could cause an electric shock, even in normal working conditions.



The symbol formed by an exclamation mark in a triangle shows that the instruction manual must be referred to for information on how the machine works and its use.



The symbol formed by one square inside another square shows that the machine has double electrical insulation.



The European Community symbol shows that the machine complies with the current European Union legislation, as well as its transposition to local legislation.



The symbol of a rubbish bin crossed out and over a horizontal line shows that when the product is disposed of it must be done properly, placing it in a special selective electronic and electrical equipment container or through a dealer when purchasing a similar product, at no additional cost. It also shows that the machine was put on the market after 13th August 2005 (European Community Directive 2002/96/CE of Electrical and Electronic recycling, and its Spanish equivalent R.D.208/2005).

In accordance with what is set out in the aforementioned decree, FONESTAR is registered in the RAEE (Registro de Aparatos Eléctricos y Electrónicos) in a special section REI (Registro de establecimientos Industriales), with the entry number 001851.

*It is possible that some of these symbols do not appear on the machine.

EXEMPTION OF LIABILITY

The characteristics of the equipment and the content of the manual can change without forewarning.

FONESTAR, S.A. does not assume responsibilities regarding the inappropriate use of the equipment or the information supplied in this instruction manual, and specifically disclaims any implied liability for marketability or fitness for any other use.

All rights reserved by **FONESTAR, S.A.**

1. DESCRIPTION

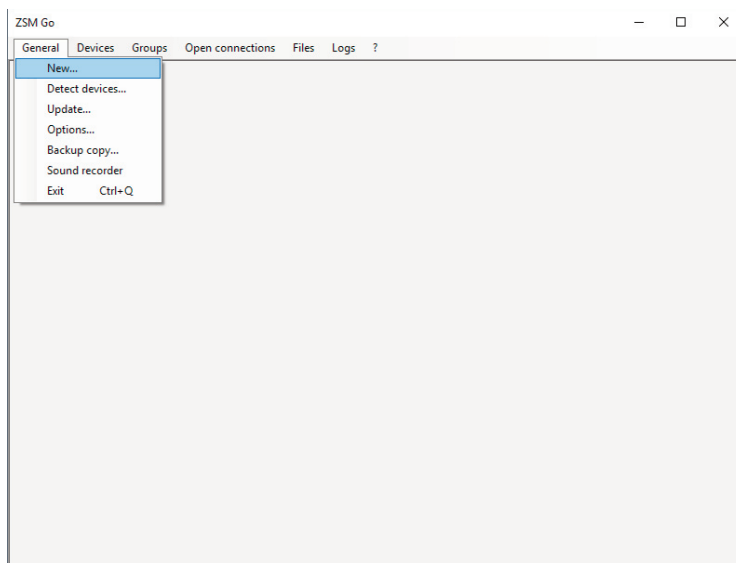
- Message programmer, alarms, background music player and SIP client with 4 output zones.
- 4 independently configurable zones (aux input, background music, scheduled messages, instant messages, alarms and SIP call).
- 16 GB internal memory for audio files. Compatible formats: MP3, WMA, WAV and OGG.
- USB storage device and SD memory card for updating the device and audio file storage.
- Remote control using **ZSM-GO**: status control, scheduling and audio file transfer.
- Autonomous operating without the need to be connected to the **ZSM-GO** program.

2. BASIC STEPS RECOMMENDED FOR INSTALLATION/CONFIGURATION OF ZSM DEVICES

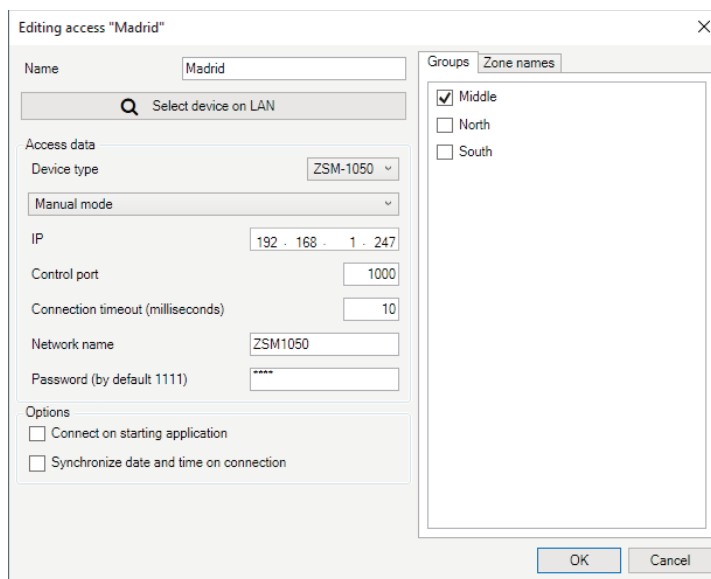
- 1.- Make sure the device is connected to the local network.
In the **ZSM-1050** device itself, enter the Configuration menu -> Network -> Status.
If it appears as “disconnected”, check the configuration of your network, the connection of the device, the Ethernet cable, etc. If necessary, set up a fixed IP address in the Set up menu -> Network -> Edit.
To connect to a ZSM device via internet, the TCP communications port and the UDP transfer port must be redirected.
The easiest way to accomplish this is by assigning a fixed IP address to the device and then, redirecting the two ports in the router to this fixed IP address.
- 2.- Use the **ZSM-GO** program to create a new connection and so be able to connect with the device (see New Connections section).
- 3.- Use the **ZSM-GO** program to configure the device (see Configuration section). The following parameters can be configured: General, Inputs/Outputs (I/O), Audio and Communications.
- 4.- Transfer the audio files from the **ZSM-GO** program to the device.
- 5.- Using the **ZSM-GO** program set up background music, scheduled messages, direct messages and alarms (see corresponding sections).

3. NEW CONNECTIONS

In order to connect to the **ZSM-1050** device, create a new connection with the new option in the General dropdown menu:



Create access to **ZSM-1050**:



ACCESS DATA

- Name: the name which identifies the access to the device.
- Device type: type of device to which you are connecting.
- Connection mode.
 - Manual mode: connects to a device using an IP, port, user and access password (default 1111).
 - Automatic mode (LAN only): the device is connectable provided that it is connected to the local network. It is only necessary to specify the access password (default 1111); You must select a device from the local network by pressing the "Select device on LAN" button.
- IP: IP address of the device.
- Control port: TCP port that the device listens to, controlled remotely.
- Network name: name of the device which, together with the password, make up the connection credentials
- Connection timeout: maximum waiting time, at TCP/IP level, before closing the connection. It is recommended that the default value be used.

OPTIONS

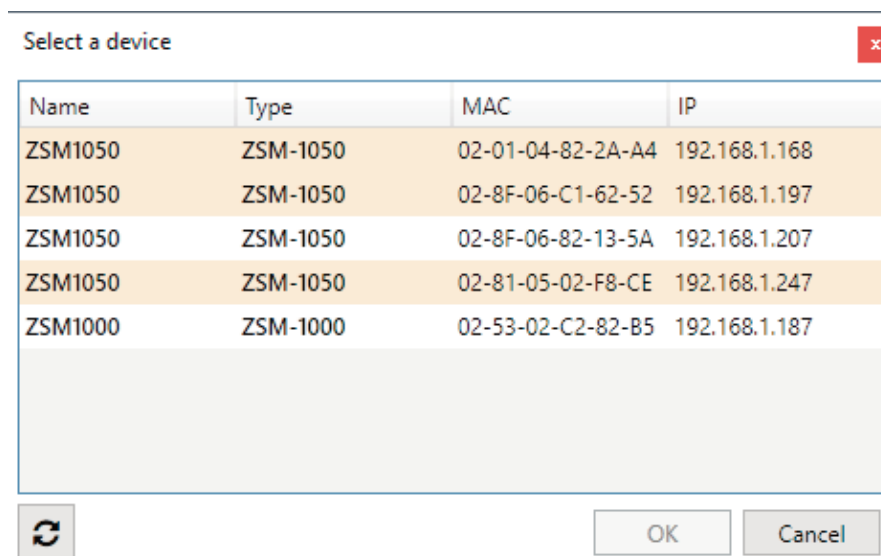
- Connect when starting the application: When launching the application, an attempt will be made to connect to the device.
- Automatic reconnection: Only in automatic mode. Whenever a device is available on the local network and is not connected, it will connect automatically to it.
- Synchronize date and time when connecting: the device will configure the time and date of the PC upon each connection.

GROUPS

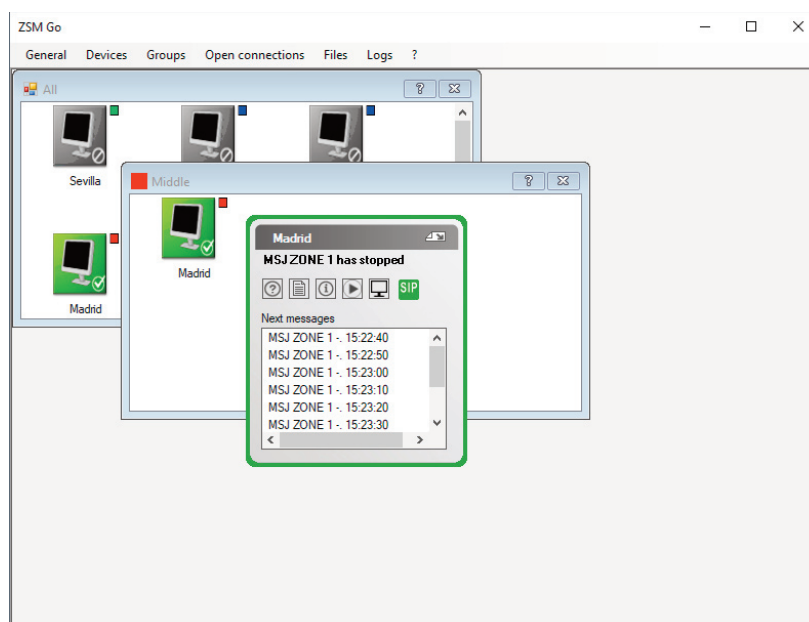
Shows the groups created so that the connection can be assigned to one or more of them.

SELECT DEVICE IN LAN

Press the button to display a list of devices connected to the local network. Select one and press OK or double-click to load the required data into the connection:



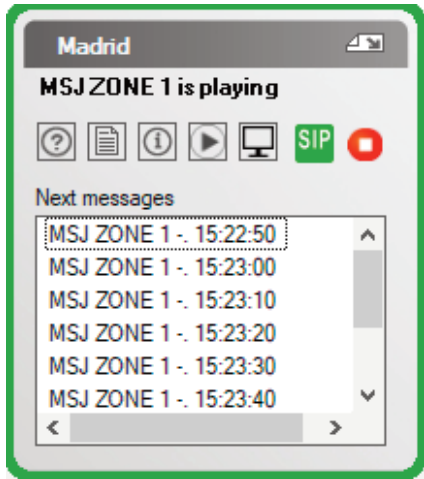
Once the configuration parameters have been entered, click on the Devices menu option, and the window with access to all the configured devices will appear. Double-click (or right-click ->Connect) to connect to the system. If you added access to one or more groups, you can access them in the **Groups** option of the menu.



4. BASIC CONTROLS

There are several options when it comes to operating a connected device.









ICON BUTTONS:



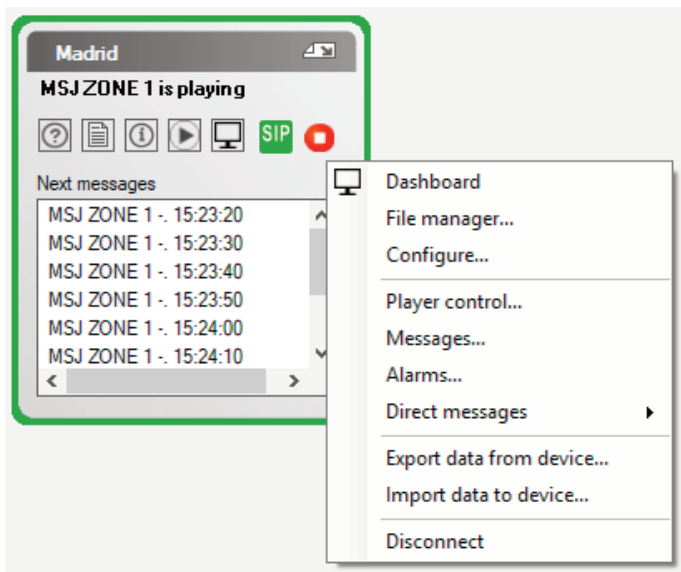
The screenshot shows the Madrid interface with the following elements:

- Header: Madrid
- Status: MSJ ZONE 1 is playing
- Control icons: Help (?), Show/Do not show list of next messages (document), Information (i), Play/Pause (play), Dashboard (monitor), SIP (green box with SIP), Stop (red square).
- Next messages list:
 - MSJ ZONE 1 -. 15:22:50
 - MSJ ZONE 1 -. 15:23:00
 - MSJ ZONE 1 -. 15:23:10
 - MSJ ZONE 1 -. 15:23:20
 - MSJ ZONE 1 -. 15:23:30
 - MSJ ZONE 1 -. 15:23:40

Legend for icons:

-  Help.
-  Show/Do not show list of next messages.
-  Information about the device: time and date, IP address, network name, ports, current status.
-  Open background music control window.
-  Open dashboard window.
-  Stop current event (message, instant message or alarm).
-  SIP server connection status
-  Hide this window.

RIGHT-CLICK ON THE DEVICE:



The screenshot shows the Madrid interface with a right-click context menu open over the dashboard icon. The menu options are:

- Dashboard
- File manager...
- Configure...
- Player control...
- Messages...
- Alarms...
- Direct messages
- Export data from device...
- Import data to device...
- Disconnect

- Dashboard: screen where the current status of the device can be seen and all it's functions can be accessed.
- File manager: audio file management and transfer.
- Configure: device configuration
- Playback control: background music control and configuration
- Messages: message configuration
- Alarms: configuration of the sensors as alarms.
- Direct messages: instant message configuration and application
- Export data from device: create a backup copy of the contents of a device and download them to the PC.
- Import data to device: Upload the backup copies to the device.
- Disconnect: disconnect from the device.

SIP connection status

If the device has been configured to connect to a SIP server, then an icon representing the current state of the connection will be displayed.



(orange) Attempting to connect to the SIP server



(green) Connection established



(red) Connection error



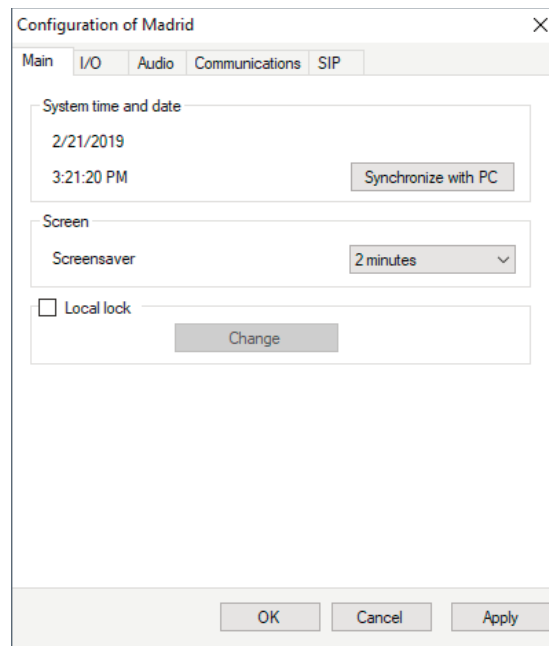
(green) SIP call in progress

5. CONFIGURATION

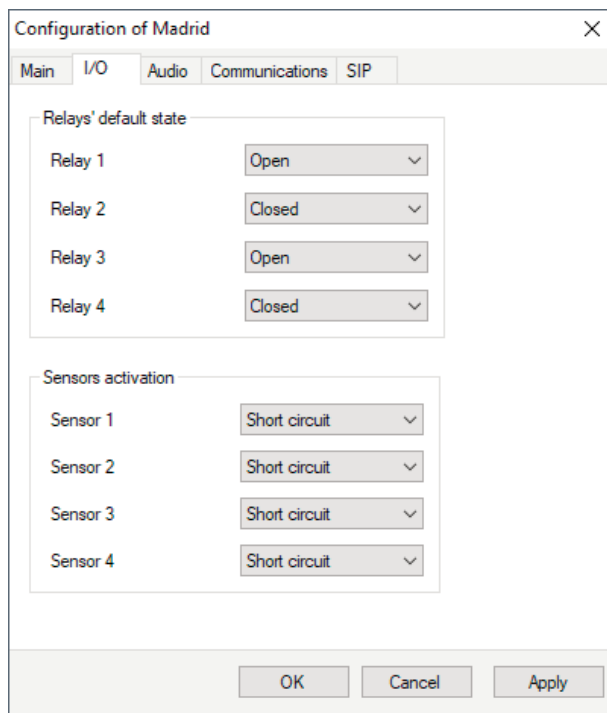
There are 2 ways of accessing the device configuration:

- Right button -> Configure
- From the display: “Dashboard -> “Configuration”

GENERAL

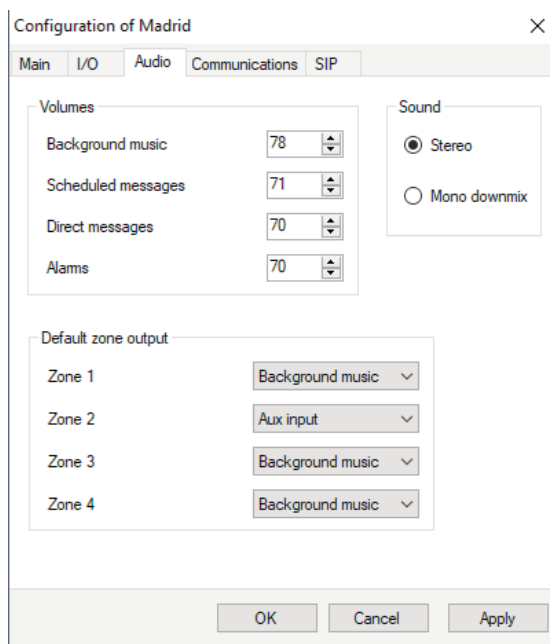


- System time and date: shows the current time and date in the ZSM device. If the “Synchronize with PC” option is pressed, the ZSM device automatically acquires the time and date in the PC.
- Screen: activates the screensaver after a period of inactivity with the buttons on the front panel of the device.
- Local lock: activated or deactivated. When activated, a 4 digit password is necessary to unlock the device, allowing modifications to be made to the device locally using the button pad.



- Relay sleep mode: Mode in which the relays are normally in when not activated.
- Sensor activation: Alarm activation configuration (see section on alarms).

AUDIO



- Volumes: Each type of audio has its own volume control.
- Sound: Mono or stereo output.
- Default Zone Output: Indicates the default audio source in the zone. Options include: "Background music", "Aux input" or "No audio".

COMMUNICATIONS

Configuration of Madrid

Main I/O Audio Communications SIP

Network access

Name: ZSM1050

Password: Change

Local network

Automatic (DHCP)

Manual (static IP)

IP: 192.168.1.247

Netmask: 255.255.255.0

Gateway: 192.168.1.1

Ports

Communications (TCP): 1000 Transfers (UDP): 69

Transfers options

Transfer mode: Block

OK Cancel Apply

- Network access: Credentials to connect to the device, consisting of name and password.
- Local network: DHCP or fixed IP network configuration.
- Port: TCP communications port through which the remote connection is made, and TFTP UDP port for audio file transfers, and updates and configurations.
- Transfer options: the system has 2 modes for transferring file data. In local area networks there is no difference, whereas with internet connections the Block mode is much faster reaching speeds of up to 3.8 Mb/s. Conversely, the Serie mode is slower but provides an alternative when slow connection problems occur.

MAX TRANSFER SPEED (Megabits per second)	ZSM-1040	ZSM-1000/ZSM-1050 SERIE TRANSFER MODE	ZSM-1000/ZSM-1050 BLOCK TRANSFER MODE
LAN	0.150 Mb/s	2.720 Mb/s	3.8 Mb/s
Internet	0.016 Mb/s	0.024 Mb/s	3.8 Mb/s

Configuration of Madrid

Main I/O Audio Communications SIP

Activated Current state Registered in SIP server

Server

IP 192.168.1.53

Port 5060

User zsm

Password *****

Audio port range 10000 - 20000

Active zones

Zone 1 Zone 2 Zone 3 Zone 4

Active relays

Relay 1 Relay 2 Relay 3 Relay 4

Options

SIP Volume 70

OK Cancel Apply

Allows you to register the device as a SIP client, and hence, to receive calls from another client connected to the same SIP server/proxy. The following parameters must be activated and configured:

- Address of the SIP server.
- Communications port of the SIP server.
- Username of the extension used on the SIP server.
- Password of the extension used on the SIP server.
- Audio port range indicates the value of the first and last port which is used to specify the usable port range for SIP calls..
- Active zones, indicates in which zones the SIP call will go through.
- Active relays, indicates the relays that are activated during a call.
- SIP Volume, indicates the playback volume of the SIP call.

6. FILE MANAGER

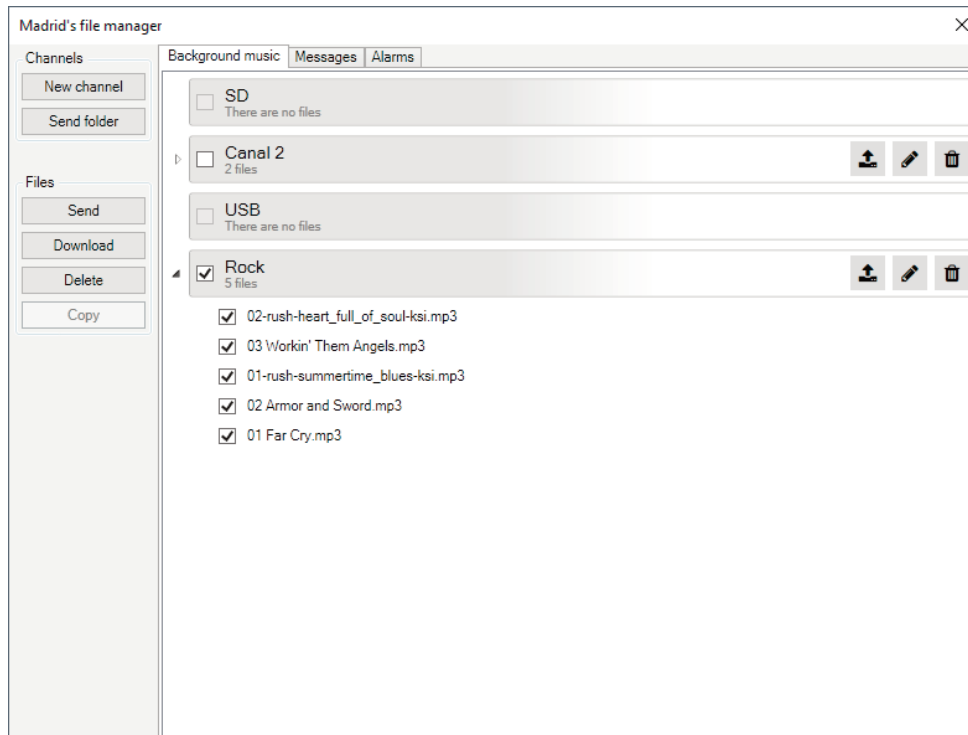
There are 2 ways of accessing the file manager:

- Right button -> File manager
- From the screen: "Dashboard" -> "File manager"

Audio files are divided into 3 categories:

- Background music files.
- Message files.
- Alarm files (**ZSM-1050** only).

BACKGROUND MUSIC



The buttons on the left side are divided into two groups:

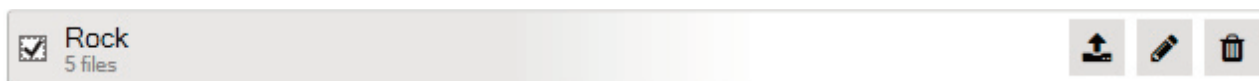
Channels

- New channel: Allows the creation of a new empty channel.
- Send directory: Select a PC directory to create a channel with the same name and send your files. Files are not sent in sub-directories.

Files

- Send: Sends files to the marked channel.
- Download: Downloads marked files to PC.
- Delete: Deletes marked files.
- Copy: Disables background music.

There are buttons on each channel by which you can operate directly:



Send files to the channel

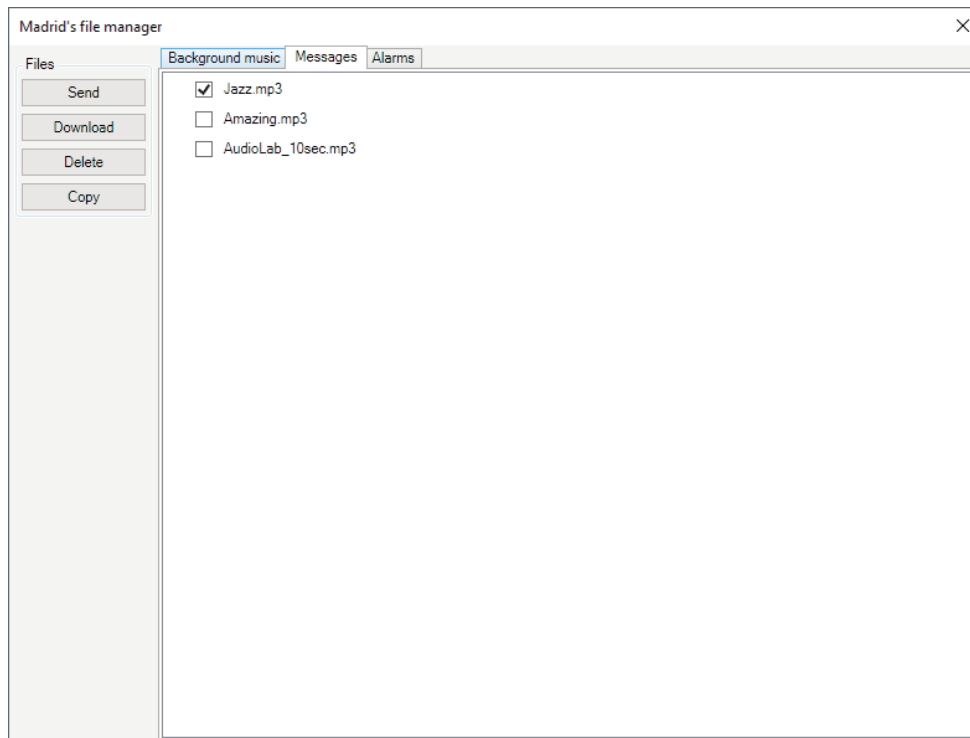


Rename the channel



A menu opens that allows you to delete selected files within the channel, or the whole channel.

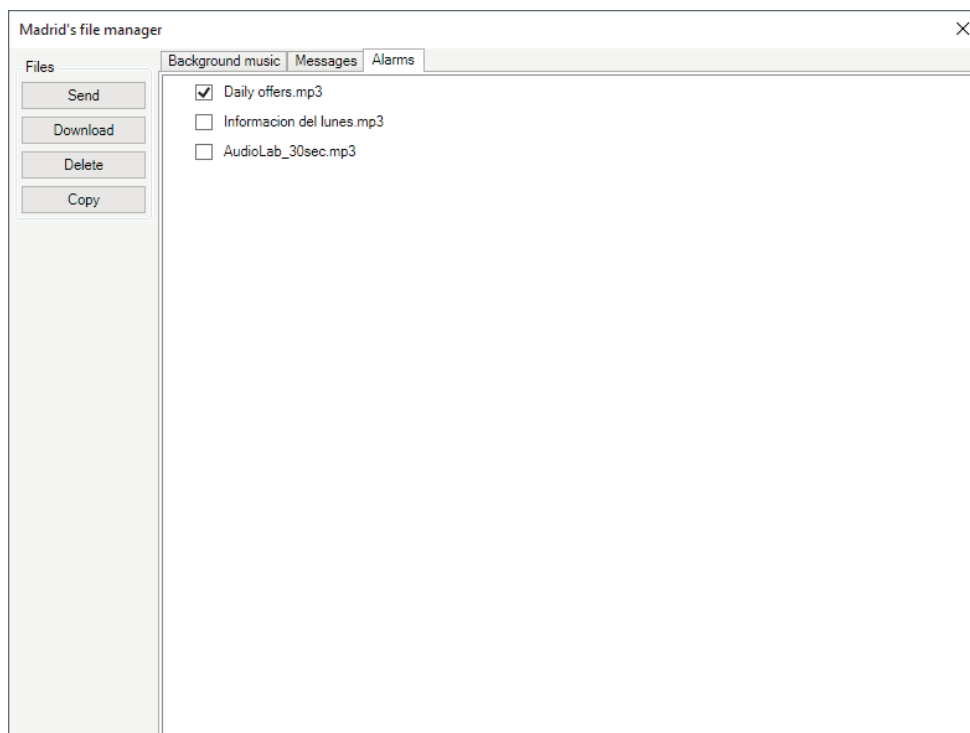
MESSAGES



The buttons on the left side allow you to:

- Send: Send files to use as audio for scheduled or direct messages.
- Download: Download the marked files to the PC.
- Delete: Deletes the marked files.
- Copy: Copies the marked files to another device as message files. A connection must be established with the target device.

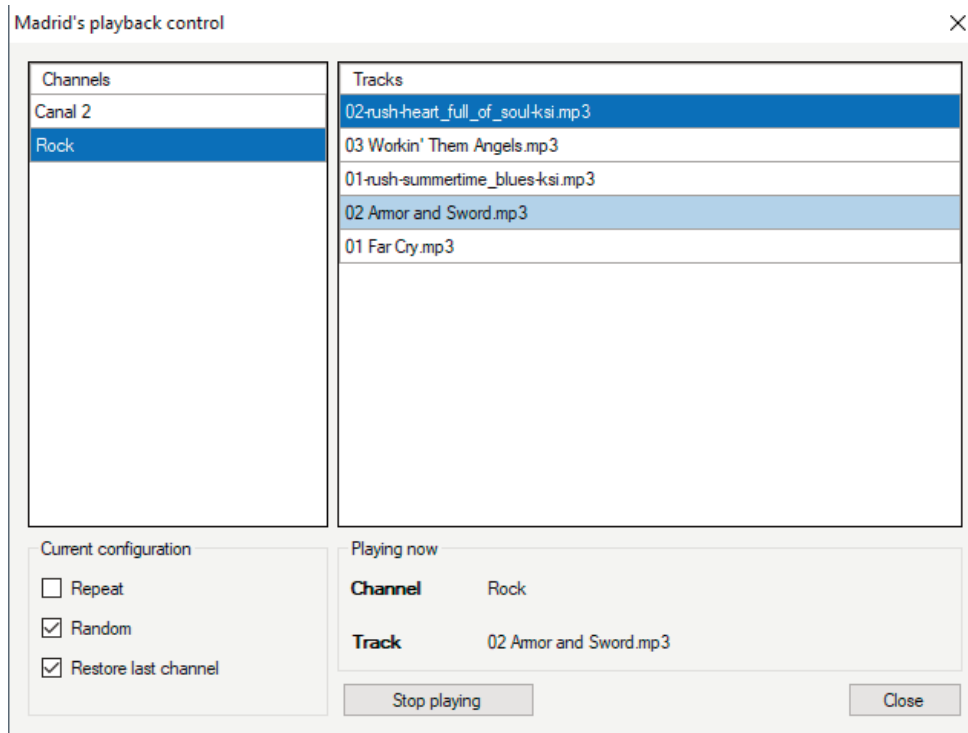
ALARMS



The buttons on the left side allow you to:

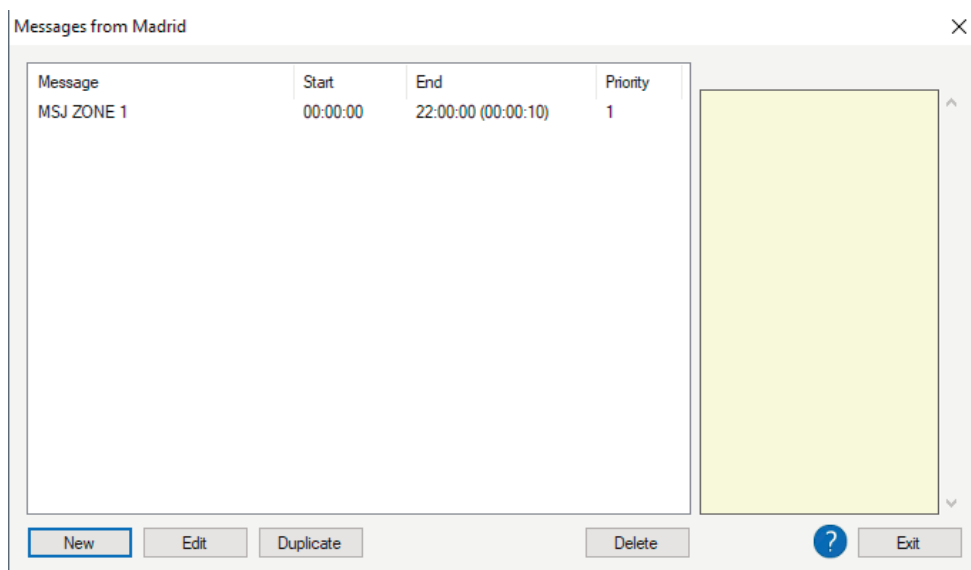
- Send: Send files to use as audio for scheduled or direct messages.
- Download: Download the marked files to the PC.
- Delete: Deletes the marked files.
- Copy: Copies the marked files to another device as message files. A connection must be established with the target device.

7. BACKGROUND MUSIC



- To play an audio file, first select the channel and then double-click on the desired audio file.
- Current configuration:
 - o Repeat: Activate repeat mode (repeats all the files contained in the selected folder).
 - o Random: selects either sequence mode (not activated) or random mode (activated).
 - o Recover last channel: if this option is enabled, the channel being played when the device is turned off is saved, so that the same channel will start playing again when the device is turned back on.

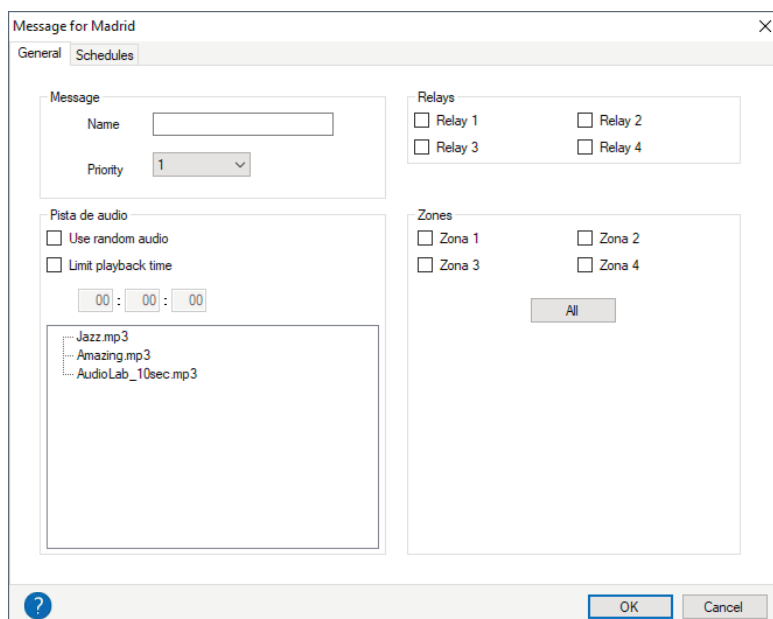
8. SCHEDULED MESSAGES



In this window all the messages that are scheduled in the device are shown. It also allows new scheduled messages to be created and edited or existing messages to be deleted.

NEW MESSAGE

General



- Message:
 - Name: message identification name.
 - Priority: allows the priority among messages to be managed. The value 1 corresponds to the lowest priority while value 5 corresponds to the highest priority.
 - In the case of the time of the messages coinciding, the one with the highest priority will be played first or otherwise, the one which was created first.
 - In the case of one message being played when it is the turn of a higher priority message, the first message will be interrupted, giving way to playback of the higher priority message.
- Audio track:
 - Use random audio: the device randomly selects an audio file in each playback. Otherwise, manually select the required file.

Schedules

Message for Madrid

General | Schedules

Date intervals

Starting date: March 2019 (4 selected)

Ending date: March 2019 (4 selected)

Days of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. Buttons: Mon - Fri, All.

Schedules:

Once a day: Starting time of message: 00:00:00, Device time: 4:25:19 PM, Now button.

Repetitive: Ending time of cycle: 00:00:00, Period of cycle: 00:00:00.

Buttons: ? (help), OK, Cancel.

- Date intervals: the program allows the use of the message to be limited to a given period of time. Set the period of time by selecting the starting date and ending date.
- Days of the week: allows the days of the week on which the message will be played to be selected.
- Schedules:
 - Once a day: the message will be played once a day at the specified time.
 - Repetitive: the message will be played several times a day, from the starting time to the ending time (both included). It will be played in the period of time specified in the Period option

Example:

Starting time: 8:00:00. Ending time: 12:00:00. Period 01:00:00.

The message will be played at 8:00, 9:00, 10:00, 11:00 and 12:00.

9. ALARMS

The system has 4 alarms, each of which is connected to a sensor input. That is, one alarm can be set for each sensor input.

Alarms have higher priority than messages. If an alarm is activated, playback of all the messages will be cancelled, regardless of the zones in which the messages are being played.

Note: It is very important to set the value of the Sensor Activation in the Configuration section -> Inputs/Outputs.

Madrid alarms

Sensor 1: Activate, Delete, Set. Priority 1, PULSE activation, PROGRAMMED TIME mode, Duration: 00:01:00, Audio track: AudioLab_30sec.mp3, Internal zones: 1, Relays: 1.

Sensor 2: Activate, Delete, Set. ALARM NOT SET.

Sensor 3: Activate, Delete, Set. Priority 1, Activation depending on LEVEL, Relays: 1, 2.

Sensor 4: Activate, Delete, Set. Priority 1, PULSE activation, TRACK DURATION mode, Audio track: ERROR, Internal zones: 1, Relays: None.

Close button.

Once the alarm has been set, activate it by checking the activate box. For the alarm to work, it must be set and activated.

It is also possible to eliminate the alarm connected to each sensor.

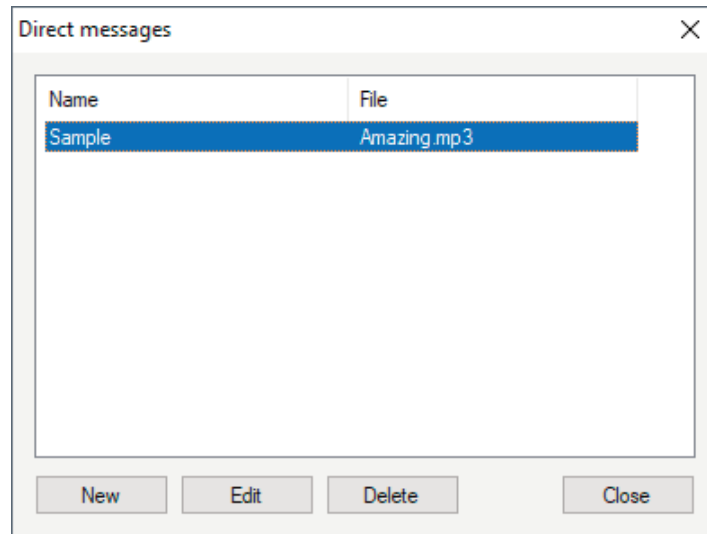
ALARM CONFIGURATION

- Priority: Allows you to manage priority among the different alarms, with 1 corresponding to lowest priority and 5 corresponding to highest priority.
 - In the event that several sensors are activated at the same time, the one with the highest priority, or the one corresponding to the lowest sensor number, will be activated.
 - If an alarm is active at the moment that a higher priority alarm reaches its activation time, the first alarm will be interrupted and the higher priority alarm will take precedence.
- Activation: defines the manner and time period in which the alarm will be active..
 - By level: the alarm will only be active as long as the sensor is in activation mode.
 - By pulse: once the sensor enters activation mode, the alarm will be activated regardless of any subsequent sensor changes.
 - Audio track length: the alarm will be active for the duration of the selected audio file.
 - Programmed time: the alarm is set to play for the programmed time interval. If the audio file duration is less than the indicated time interval, the file will be repeated until the time is up.
 - Another sensor: the alarm will be active until the activation condition of the second sensor is met. Only sensors that do not have an alarm set will be available as "deactivators".

If "Use audio" is activated in the general tab, an audio and the zones in which the alarm will sound must be selected. This step is mandatory if you have configured the activation as Pulse with Audio Duration.

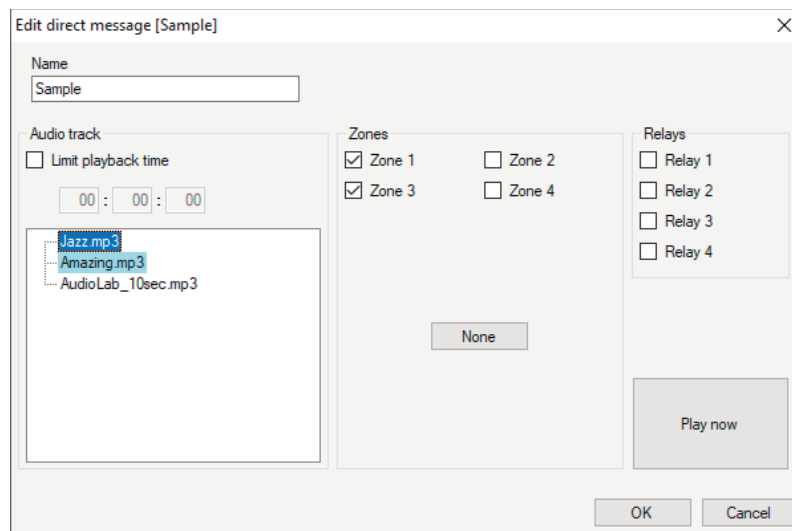
10. DIRECT MESSAGES

Direct messages are useful in cases where you want to play an audio file manually and quickly.



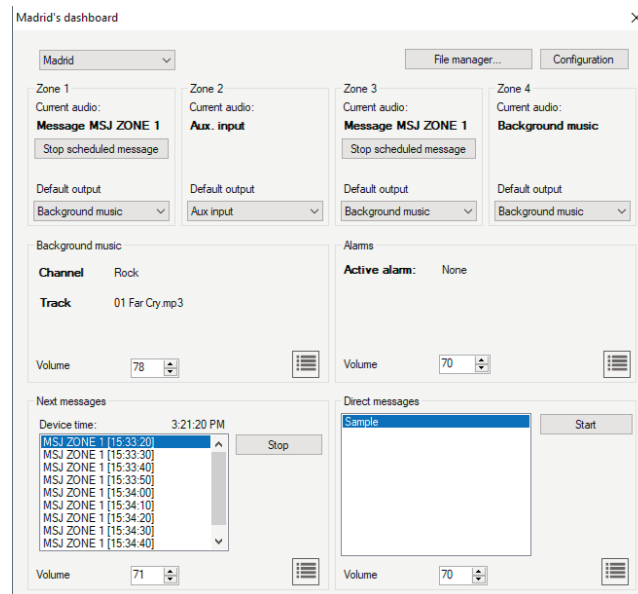
In this window the messages that have already been scheduled in the device are shown. It is also possible to create new messages and to edit or delete existing ones.

NEW DIRECT MESSAGE



- Name: direct message identification name.
- Audio track: select the audio track you wish to play in the direct message.
- Zones: allows the zones in which the direct message will be heard to be selected.
- Relays: allows the relays of your choice to be activated during playback of the direct message.

11. DASHBOARD WINDOW



The window is divided into 3 main blocks:

1- General:

- a. Tab which allows switching between the connected devices.
- b. File manager direct access button.
- c. Configuration direct access button.

2- Zone control: indicates the current audio in each zone.

3- Functions control:

- a. Background music:
 - i. Current channel and audio file.
 - ii. Background music volume.
 - iii. Direct access to the playback control window.
- b. Alarms:
 - i. Current active alarm.
 - ii. Alarm volume.
 - iii. Direct access to the alarm configuration window.
- c. Next messages:
 - i. Current time of the system.
 - ii. List of upcoming messages and the time at which they will be played.
 - iii. Scheduled message volume.
 - iv. Direct access to the scheduled messages configuration window.
- d. Direct messages:
 - i. List of preset direct messages.
 - ii. Possibility of executing message playback.
 - iii. Direct message volume.
 - iv. Direct access to the direct message configuration window.

12. EXPORTING AND IMPORTING

The program allows a file containing all the data of a device to be saved on the PC. The saved file serves as a backup or as a way to duplicate settings and audio files on other devices.

The saved data consists of:

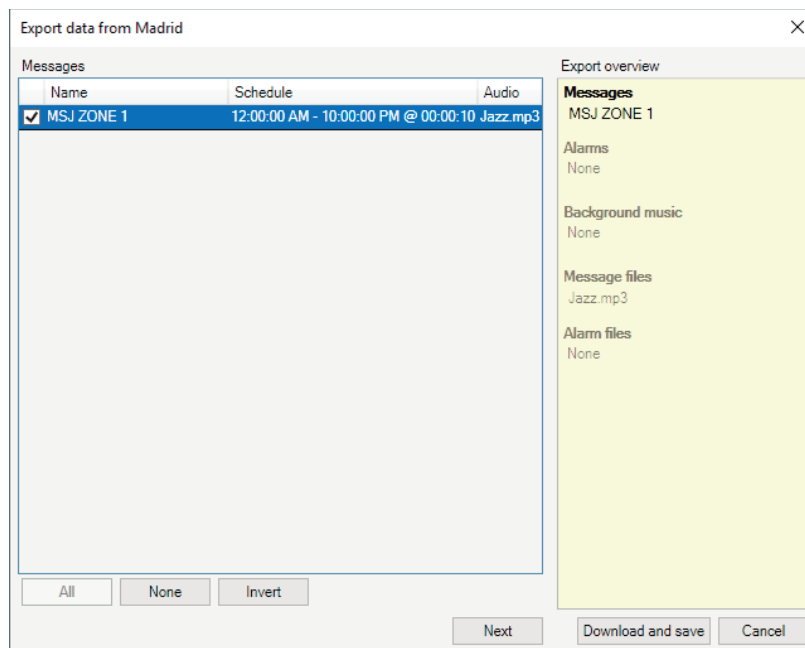
- Files of background music, messages and alarms
- Configurations of messages and alarms.

EXPORT

The PC export window allows you to select the data you would like to be saved to a file. To access the data, right-click on an entry and click "Export data from device".

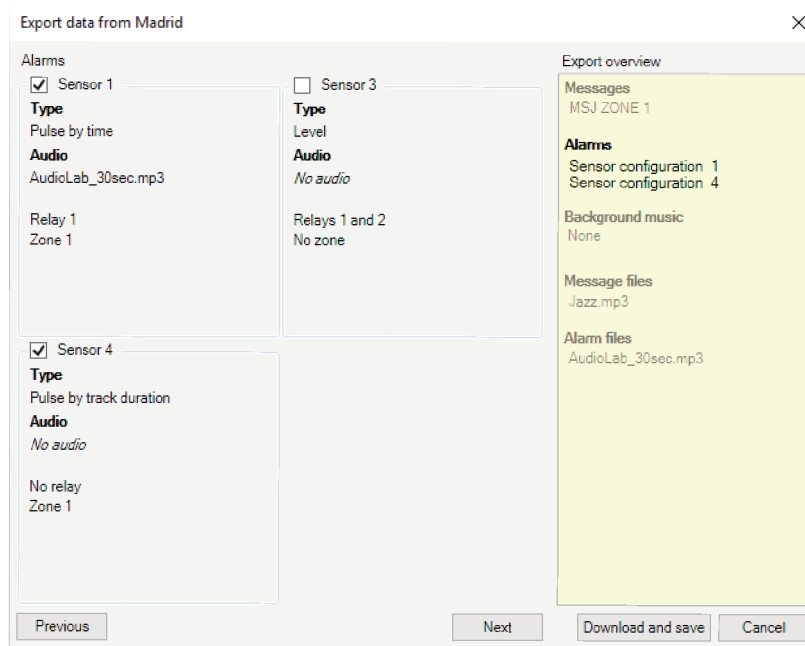
The window has 5 sections:

Scheduled messages



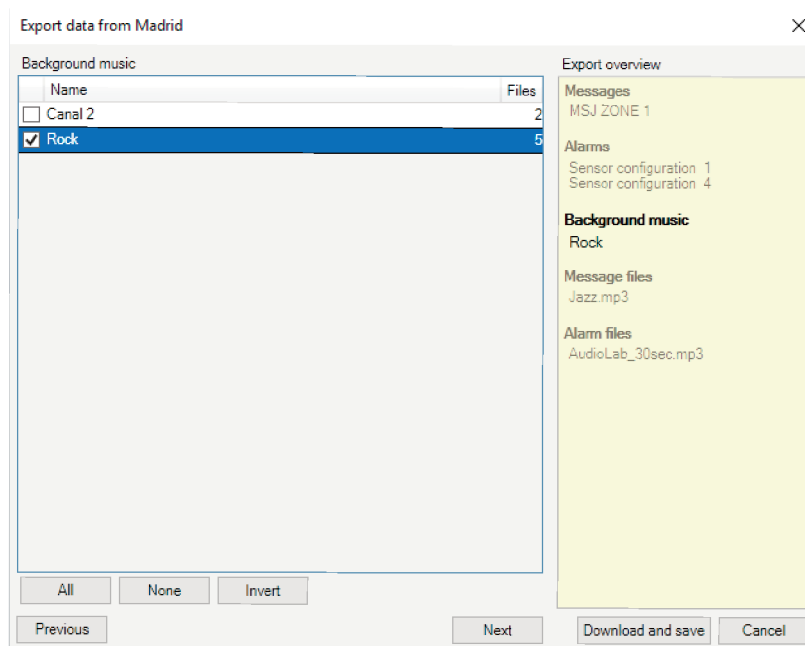
Select the messages you want to save. The files required for playback will be automatically included.

Alarms



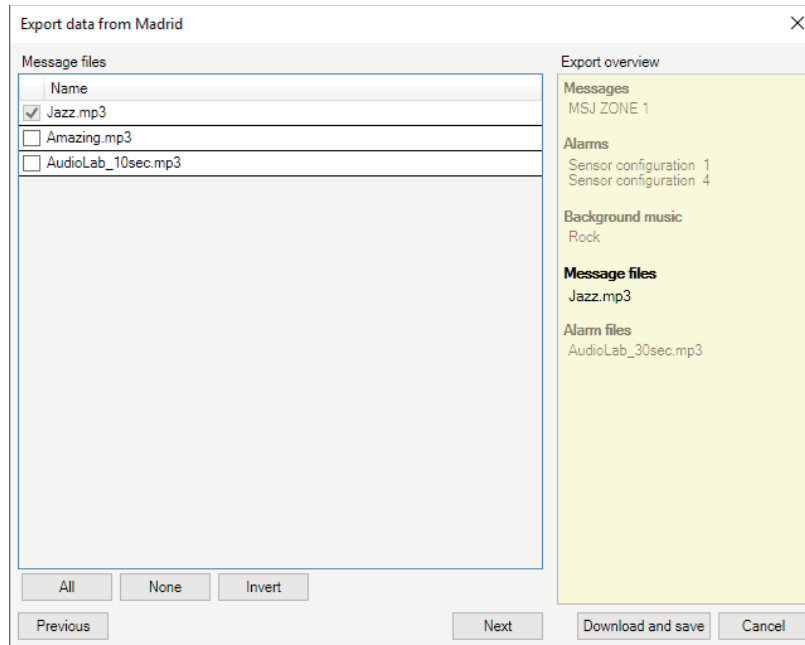
Select the message files that you wish to save. If programmed messages have been selected in advance, the files associated with them will be marked as necessary.

Background music



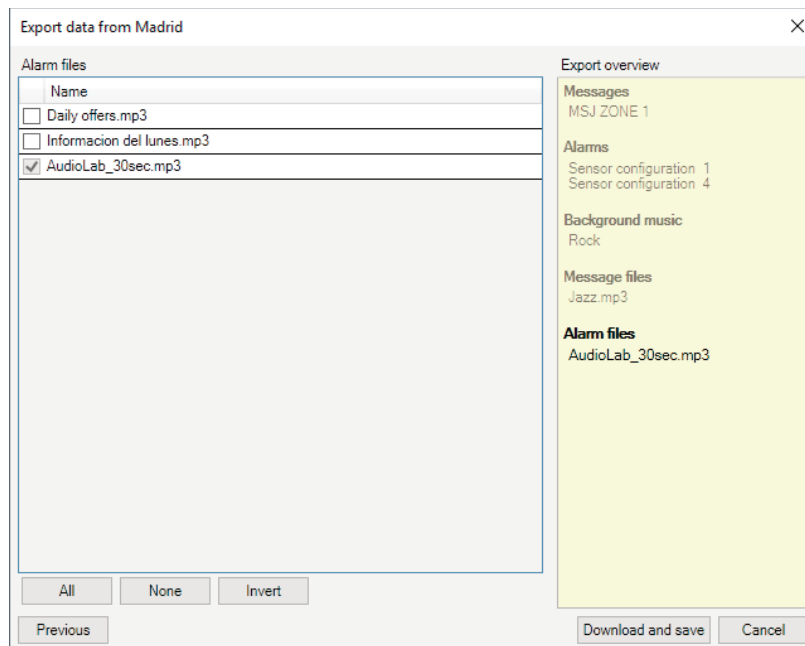
Select the background music channels you wish to save.

Programmed message files



Select the message files that you wish to save. If programmed messages have been selected in advance, the files associated with them will be marked as necessary.

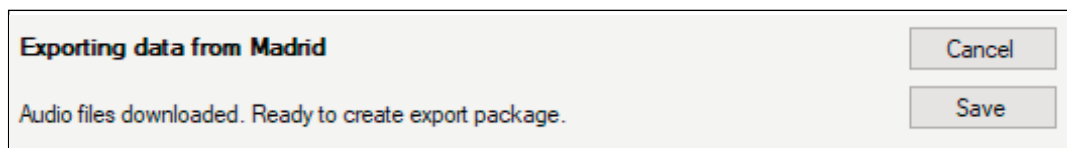
Alarm files



Select the alarm files that you wish to save. If you have previously selected alarms that have associated audio files, these files will be marked as mandatory.

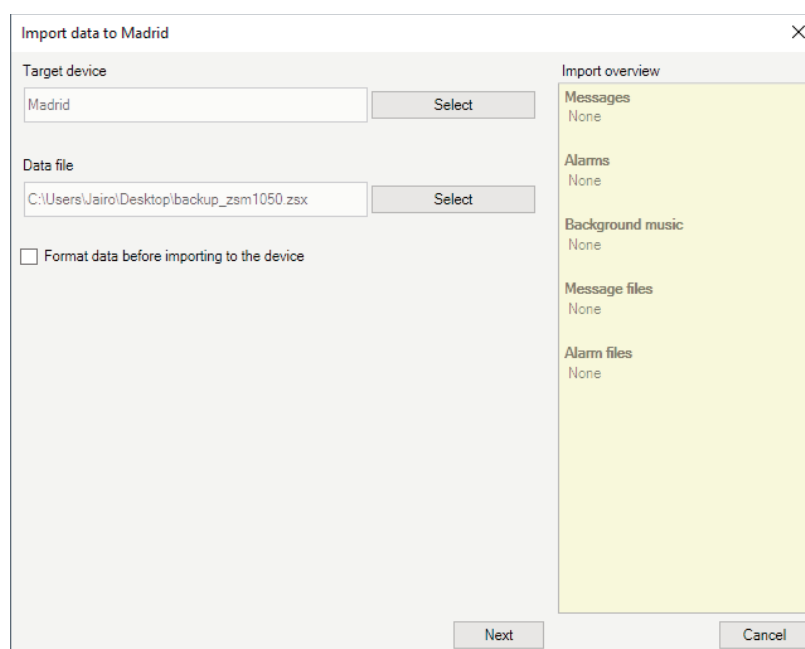
Download and save

At any time that you have the items you wish to save, click "Download and save" and the process of downloading the files will begin. Once completed, a notification will appear at the bottom with a "Save" button. This will open a dialog window for you to name the export file.



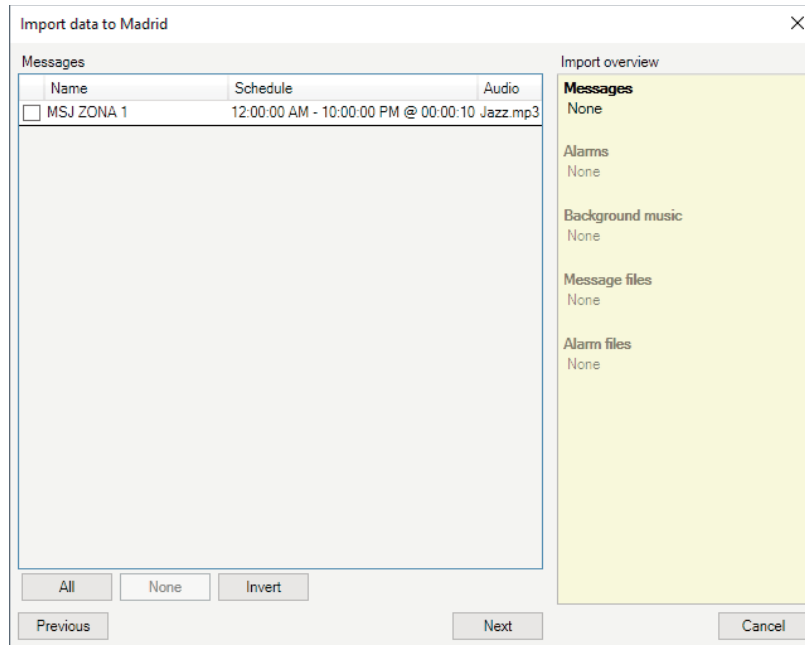
IMPORT

The Import to Device window allows you to load a previously exported data file. To access it, right-click on an entry and select "Import data to device".



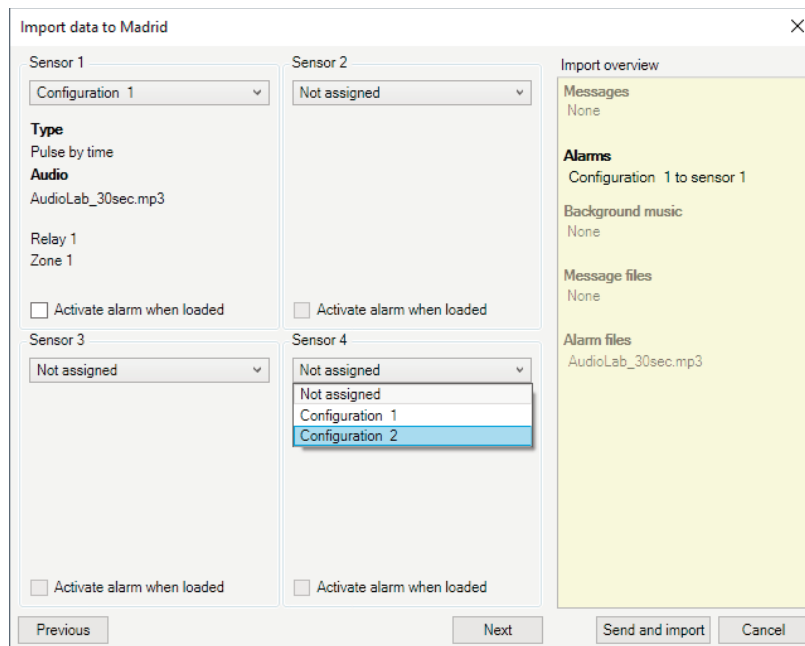
- Destination device: Device where the data will be loaded. By default, the device for which the window was opened.
- Data file: File containing exported data
- Format data before importing to the device: Deletes messages, alarms and files from the device before sending the data.

Programmed messages



Select the scheduled messages you want to load to the destination device. The files necessary for playback will be loaded automatically.

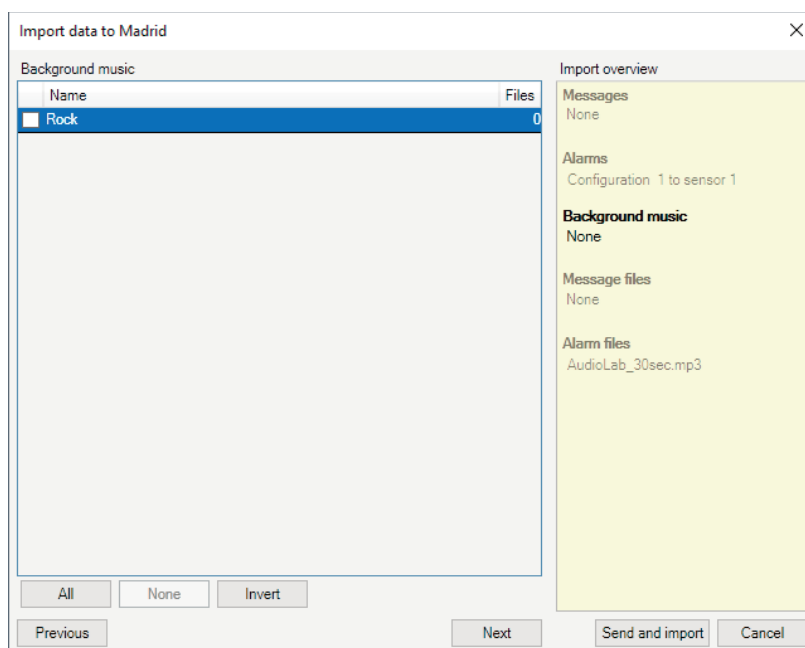
Alarms



As the alarms do not have identifying names, to configure them you must select the configuration you want to load from the drop-down list. In this way, you can load the original configuration into another sensor in compliance with the installation of the destination device.

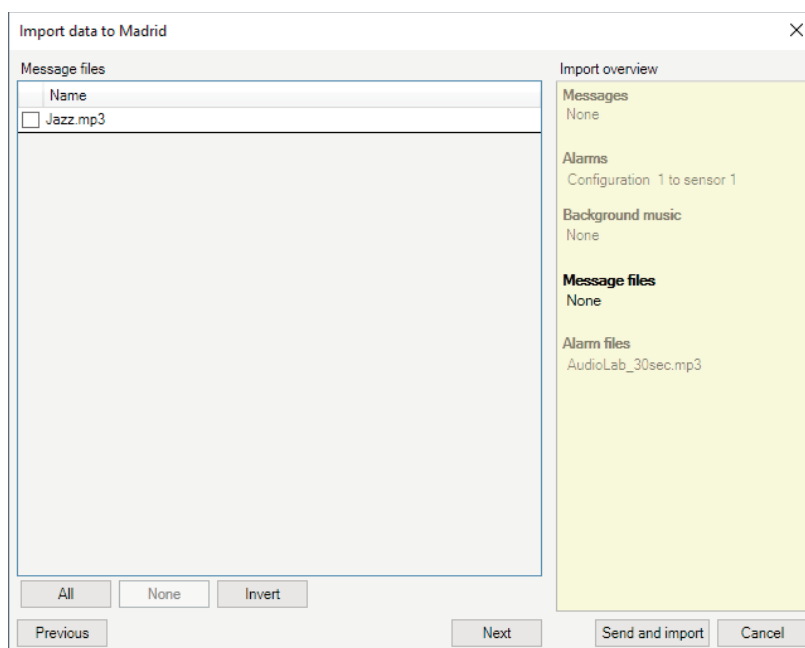
Files that require the settings to be selected will be loaded automatically.

Background music channels



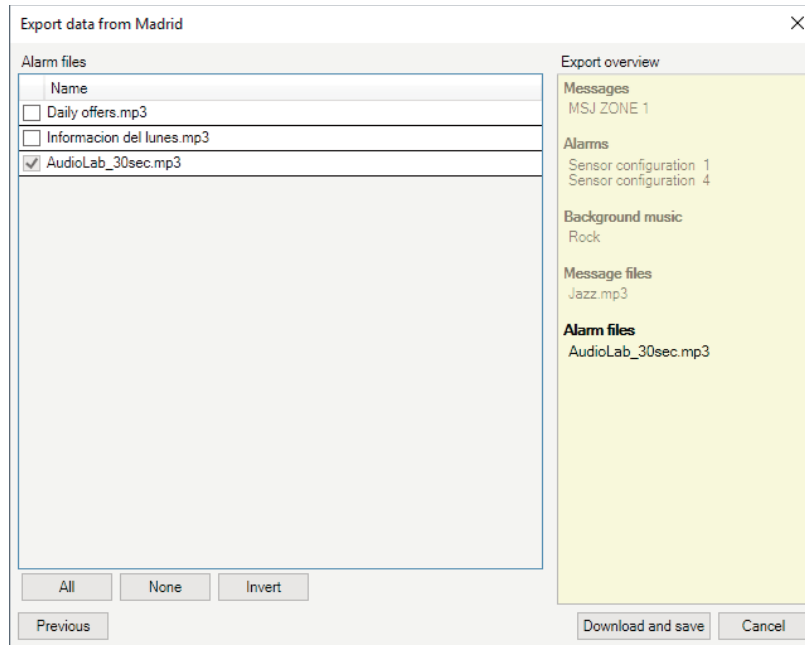
Select the background music channels you want to load onto the target device.

Message files



Select the alarm files you want to upload to the target device. If you have previously selected alarms that have associated audio files, these files will be marked as obligatory.

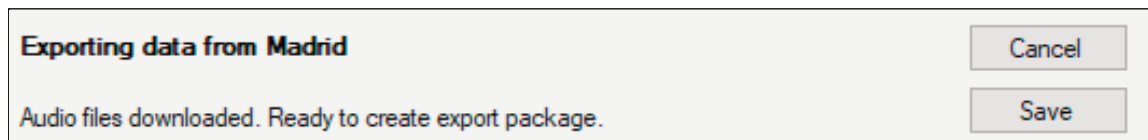
Alarm files



Select the alarm files you want to upload to the target device. If you have previously selected alarms that have associated audio files, these files will be marked as obligatory.

Send and import

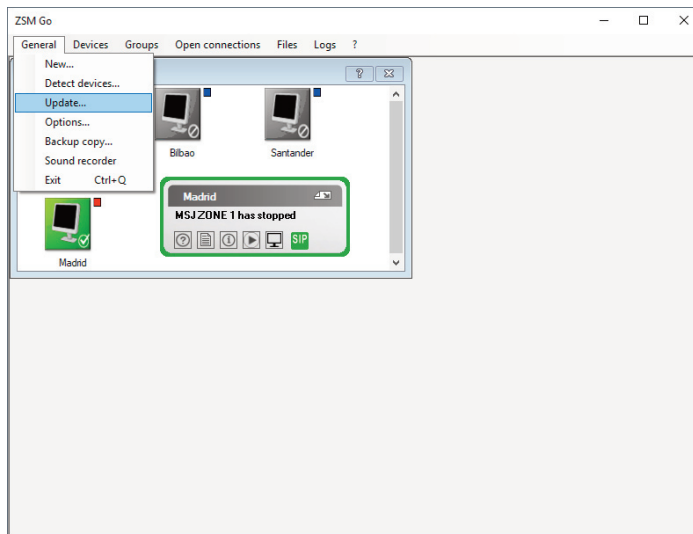
At any time, click the "Send and Import" button with the items that you want to be loaded to the device. The window will close and the file transfer process will start. Once finished, you will see a notification at the bottom of the indicated application that the process is complete.



13. UPDATES

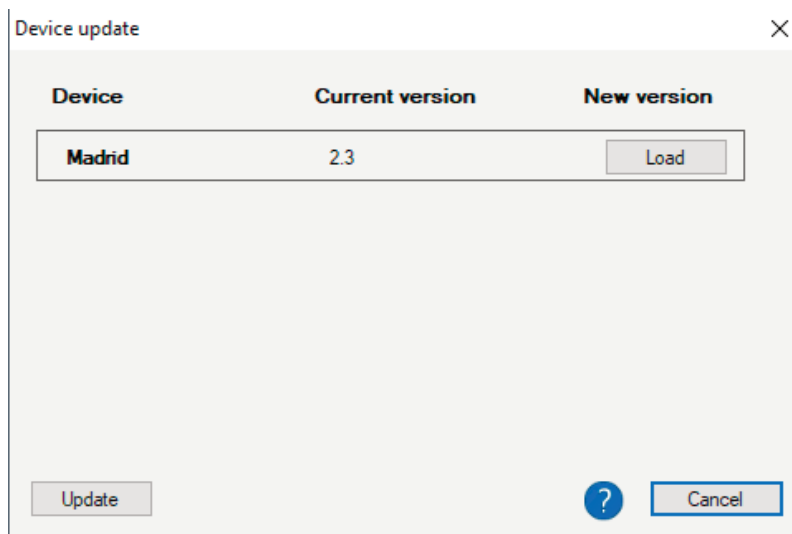
REMOTE METHOD (INTERNET OR LAN)

1- 1. In the General tab, select the Update option.



2- The connected devices will be shown in the list.

3. Select the new version that you wish to load for the update.



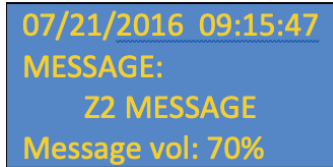
4- Press the update button. Once the update has completed, the device will restart.

NOTE: Fonestar provides the update files for the devices and the **ZSM-GO** program on its website.

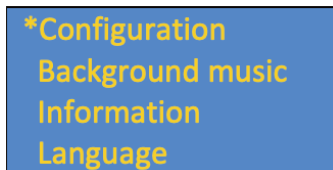
LOCAL METHOD

- Download the update file provided by Fonestar through its website in your PC. Put the file in the USB storage device or in the SD memory card. Put the file in the root of the media.
- There are 2 methods of local updating: through the device menus and through the security update.

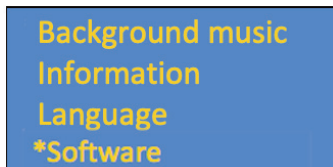
Through menus



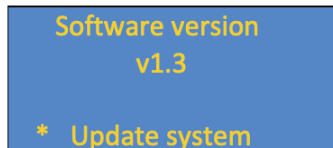
- Press the OK button.



- Press the DOWN key until the Software option is reached.



- Press the OK button (the current version of software installed in the device is indicated).



- Press the OK button again.



Once the media in which the update file is stored has been selected, press the OK button to perform the update. The device will subsequently restart in order to complete the update.

Through security update

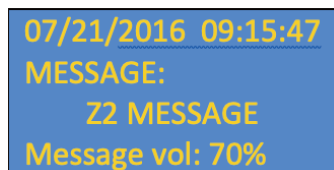
The device can be updated using the security mechanism, prior to the system booting up. Follow the steps described below to do so:

1. Insert the storage device containing the software update file in the USB or SD port.
2. Switch off the device and switch it on again.
3. When switching on the device, press and hold the OK button until the device indicates that it is searching for the update file in the storage device.
4. The device will then restart in order to complete the update.

14. LOCAL CONTROL OF ZSM-1050 DEVICE

INITIAL SCREEN

This is how the screen looks when the device starts up:



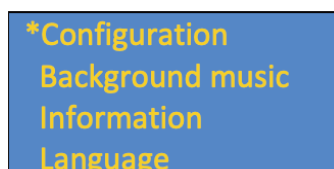
The information displayed is as follows:

- Device time and date.
- Current type of audio (scheduled message, direct message or alarm) or background music.
- Name of the message, alarms or background music audio file.
- Volume of the current audio or background music.

The following actions can be performed using the buttons on the front panel of the device:

- ▲: increase the volume of the background music.
- ▼: decrease the volume of the background music.
- ◀: a short press of this button cancels an event if it is scheduled. If there is no event scheduled, it changes the background music to the previous track.
A long press of this button allows the background music to be changed to the previous channel. If there is no previous channel, it stops playback of the background music.
- ▶: a short press of this button cancels an event if is scheduled. If there is no event scheduled, it changes the background music to the next track.
A long press of this button allows the background music to be changed to the next channel. If there is no next channel, it stops playback of the background music.
- **OK**: allows the main menu display to be visualized.

MAIN MENU DISPLAY



The main display allows access to the device's main menu, composed of the following sections:

- Configuration.
- Background music.
- Information.
- Language.
- Software.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required menu. It is marked with an asterisk.
- ◀: allows the initial screen to be visualized.
- ▶: unused.
- **OK**: access selected menu.

1. CONFIGURATION DISPLAY



Allows access to this menu, composed of the following sections:

- Audio configuration.
- Network configuration.
- Inputs/Outputs configuration (sensors/relays).
- Time and date configuration.
- Passwords.
- Device default values.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required submenu. It is marked with an asterisk.
- ◀: allows you to return to the main menu.
- ▶: unused.
- **OK**: access the selected submenu.

1.1. AUDIO CONFIGURATION SCREEN



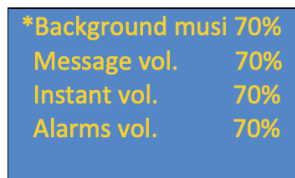
Allows access to this menu, composed of the following sections:

- Volume configuration.
- Zones.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required submenu. It is marked with an asterisk.
- ◀: allows you to return to the previous screen.
- ▶: unused.
- **OK**: to access the selected submenu.

1.1.1. VOLUME CONFIGURATION SCREEN

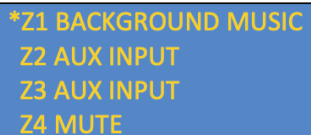


The volume configuration screen allows the volume of each type of audio to be modified.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the volume to be configured. It is marked with an asterisk.
- ◀: allows the volume of the type of audio selected to be reduced.
- ▶: allows the volume of the type of audio selected to be increased..
- **OK**: confirms the chosen values and returns to the Audio configuration screen.

1.1.2. CONFIGURATION SCREEN OF DEFAULT AUDIO OUTPUTS IN THE ZONES



*Z1 BACKGROUND MUSIC
Z2 AUX INPUT
Z3 AUX INPUT
Z4 MUTE

The audio output configuration screen allows the type of audio in each zone to be modified if there is no event.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required zone. It is marked with an asterisk.
- ◀/▶: allows the type of audio in each zone to be selected.
- **OK**: confirms the values chosen and return to the Audio configuration screen.

1.2. NETWORK CONFIGURATION SCREEN



NETWORK CONFIG.
*Status
Edit

The network configuration screen allows access to this menu, composed of the following sections:

- Network configuration status.
- Edit network configuration.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required submenu. It is marked with an asterisk.
- ◀: allows you to return to the previous screen.
- ▶: unused.
- **OK**: access the selected submenu.

1.2.1. NETWORK CONFIGURATION STATUS



FIXED IP
IP: 192.168.1.2
SM: 255.255.255.0
DG: 192.168.1.1

This screen displays information about the network configuration status.

The following actions can be performed using the buttons on the front panel of the device:

- ◀: allows you to return to the previous screen.

1.2.2. NETWORK CONFIGURATION EDITING SCREEN

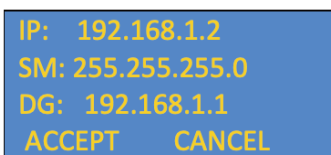


Allows the device to be configured with DHCP or fixed IP address.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required option. It is marked with an asterisk.
- ⬅/➡: buttons to select ACCEPT/CANCEL. It is marked with an asterisk.
- **OK**: access the selected option.

1.2.2.1. SCREEN TO EDIT FIXED IP ADDRESS

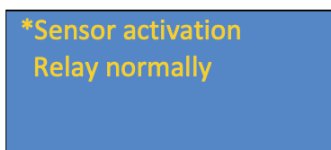


Allows the IP address to be changed manually, the subnet mask and the gateway. The screen cursor blinks on the octet that is being modified.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: increase/decrease the value of the selected octet.
- ⬅/➡: buttons to navigate through the different octets and to select ACCEPT/CANCEL.
- **OK**: confirms selection. Position the cursor above the ACCEPT option after modifying the values and confirm with this OK button. If you wish to return to the previous screen without confirming the modification, place the cursor above the CANCEL option and confirm with this OK button.

1.3. INPUTS/OUTPUTS SCREEN



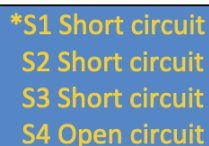
This screen allows access to this submenu, composed of the following sections:

- Alarm sensor activation condition configuration.
- Relays' default state configuration.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required submenu. It is marked with an asterisk.
- ⬅: allows you to return to the previous screen.
- ➡: unused.
- **OK**: access the selected submenu.

1.3.1. SENSOR ACTIVATION CONDITION SCREEN



*S1 Short circuit
S2 Short circuit
S3 Short circuit
S4 Open circuit

Allows the sensor activation condition to be configured, that's to say, the status that they must detect in order to trigger the alarms.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required sensor. It is marked with an asterisk.
- ◀/▶: allows selection between the two options (Short circuit/Open circuit) for each sensor.
- **OK**: confirms the chosen values and returns to the Inputs/Outputs screen.

1.3.2. RELAYS' DEFAULT STATE SCREEN



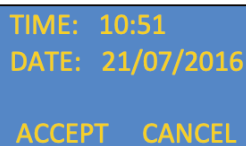
*R1 Open
R2 Open
R3 Closed
R4 Closed

Allows the relays' default state to be configured as normally open or normally closed. If they are activated by some type of event (scheduled message, direct message or alarm) they automatically change to the other state.

The following actions can be taken using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required relay. It is marked with an asterisk.
- ◀/▶: allow selection between the two options (Normally open/Normally closed) for each relay.
- **OK**: confirms the chosen values and returns to the Inputs/Outputs screen.

1.4. TIME AND DATE SCREEN



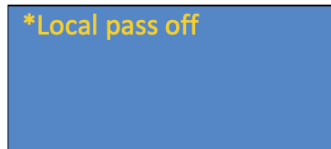
TIME: 10:51
DATE: 21/07/2016
ACCEPT CANCEL

This screen allows the device's time and date to be changed manually. The screen cursor blinks above the element being changed.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: increase/decrease the value of the selected element (the cursor blinks).
- ◀/▶: buttons to navigate through the different elements and selection of ACCEPT/CANCEL.
- **OK**: confirms the selection.

1.5. PASSWORD SCREEN



This screen allows the local password to be activated or deactivated in order to block the actions of the buttons on the front panel of the device.

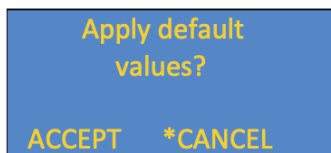
The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: unused.
- ◀: deactivates local password.
- ▶: activates local password.
- **OK**: confirms the selectio.

If the local password has been deactivated, return to the Configuration screen.

if alternatively, the local password has been activated, a new one will be requested along with its repetition..

1.6. DEFAULT VALUES SCREEN




Allows the default values to be reset. Bear in mind that if this action is performed, the current configuration will be deleted from the device (scheduled messages, direct messages and alarms).

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: unused.
- ◀/▶: buttons to select ACCEPT/CANCEL.
- **OK**: confirms the selection.

2. BACKGROUND MUSIC SCREEN



*Channels
Configure

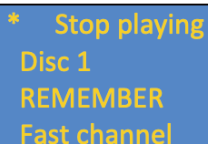
Allows access to this menu, composed of the following sections:

- Selection of current background music channel. It also allows the background music playback to be stopped.
- Background music configuration.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required submenu. It is marked with an asterisk.
- ◀: allows you to return to the main menu screen.
- ▶: unused.
- **OK**: accesses the selected submenu.

2.1. BACKGROUND MUSIC CHANNEL SCREEN



* Stop playing
Disc 1
REMEMBER
Fast channel

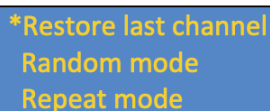
The first line allows the background music playback to be stopped.

In the following lines all the available background music channels are shown.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required option. It is marked with an asterisk.
- ◀: allows you to return to the previous screen.
- ▶: unused.
- **OK**: confirms the selection. Place the cursor above the Stop playback option in order to stop the background music and confirm with this OK button.
Choose the background music channel required and confirm the selection with this OK button.

2.2. BACKGROUND MUSIC CONFIGURATION SCREEN



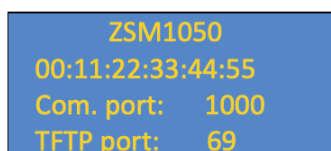
*Restore last channel
Random mode
Repeat mode

Allows selection of last channel recovery, random mode or repeat mode.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required option. It is marked with an asterisk.
- ◀: allows you to return to the previous screen.
- ▶: unused.
- **OK**: confirms the required option.

3. INFORMATION SCREEN

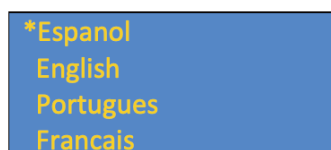


Displays information about the device (type of device, MAC address, communications port and file transfer port).

The following actions can be performed using the buttons on the front panel of the device:

- ◀: allows you to return to the main menu.

4. LANGUAGE SCREEN

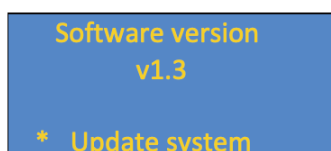


Allows the language in the device menus to be changed.

The following actions can be performed using the buttons on the front panel of the device:

- ▲/▼: buttons to select the required language. It is marked with an asterisk.
- ◀: allows you to return to the previous screen.
- ▶: unused.
- **OK**: confirms the required option.

5. SOFTWARE SCREEN



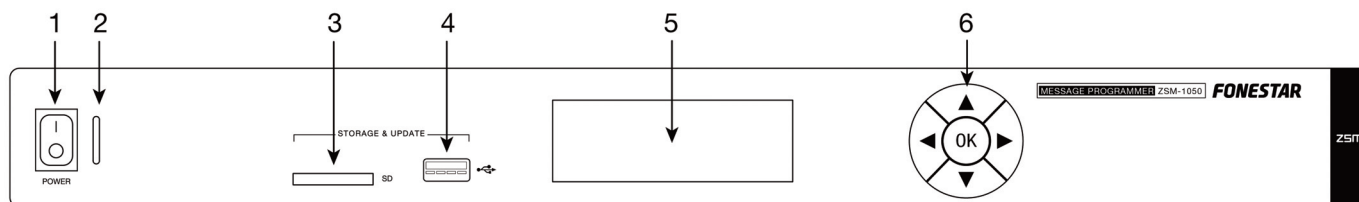
Indicates the current version of the device software (firmware) and allows you to search for update files in removable storage media.

The following actions can be performed using the buttons on the front panel of the device:

- ◀: allows you to return to the main menu.
- **OK**: accesses a submenu that allows you to choose between the USB storage device and the SD memory card in order to search for an update file.

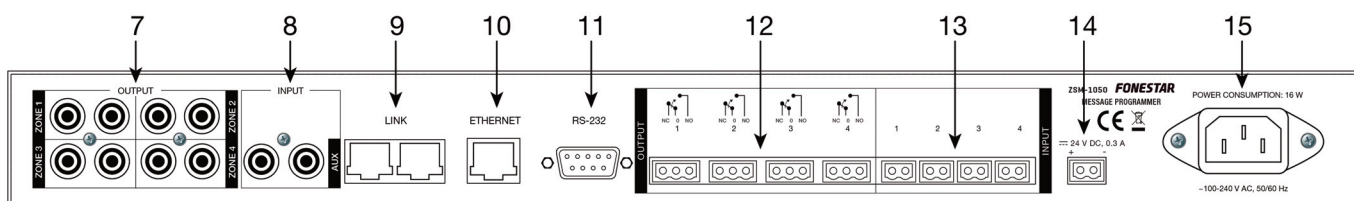
15. CONTROLS AND FUNCTIONS

FRONT PANEL



- 1.- **POWER:** device on/off switch.
- 2.- Device LED power indicator.
It will blink in blue when the device is starting up.
It will light up in solid blue when the device is connected and working.
A steady red light will appear when the device is in operation but not connected to the local network.
- 3.- SD memory card connection slot.
- 4.- USB storage device connection port.
- 5.- Device information screen.
- 6.- Selection/confirmation buttons. Allow the device to be controlled locally.

REAR PANEL



- 7.- **OUTPUT:** Zones 1-4 outputs, 2 x RCA connectors.
- 8.- **INPUT:** line level aux input, 2 x RCA connectors.
- 9.- **LINK:** function not available.
- 10.- **ETHERNET:** local area network connection port via Cat 5e/6 cable, RJ-45 connector.
- 11.- **RS-232:** function not available.
- 12.- Output relays, euroblock connectors.
- 13.- Input sensors, euroblock connectors.
- 14.- Emergency power supply 24 V DC.
- 15.- Power supply connector.

16. TECHNICAL SPECIFICATIONS

	ZSM-1050
CHARACTERISTICS	<p>Message programmer, events and background music player with 4 output zones.</p> <p>Message scheduling and general purpose outputs.</p> <p>,Live message playback.</p> <p>Events and alarms activated through contact closure.</p> <p>Specific message and alarm player. Does not cut off background music.</p> <p>Background music playback from USB/SD or internal memory with creation of multiple channels.</p> <p>PC software for programming, audio file transfer and management through local area network (LAN) and internet.</p> <p>Alarm and message priority over background music inputs.</p> <p>8 GB internal memory for audio files.</p> <p>USB port and SD card reader for audio file playback and software upgradin.</p>
INPUTS	<p>1 background music aux, 2 x RCA 1 V</p> <p>4 programmable inputs for alarm activation through contact closure, euroblock</p> <p>1 ethernet, RJ-45</p>
OUTPUTS	<p>4 zones, 2 x RCA 2 V</p> <p>4 general purpose relays, euroblock</p> <p>2 link for future applications, RJ-45</p>
POWER SUPPLY	100-240 V AC, 9 W and 24 V DC, 0.4 A
DIMENSIONS	435 x 45 x 220 mm depth. 1 U 19" rack
ACCESSORIES	Mounts for assembly in 19" rack
SOFTWARE	<p>PC software ZSM-GO (included)</p> <p>Access through local area network (LAN) and internet</p> <p>Multiple ZSM control and management</p> <p>Message programming and general purpose outputs</p> <p>Alarm and alarm input configuration</p> <p>Creation and control of background music channels</p> <p>Audio file transfer and management</p> <p>Status monitoring</p>

WARRANTY

FONESTAR guarantees the suitability of the product for its specified use during a period of 2 years from the delivery date and commits itself to repair or substitute the goods as expressed in the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.

The lack of conformity in the first six months after purchase, due to a manufacturing defect, will be rectified with no more than showing the proof of purchase. After six months **FONESTAR** reserves the right to demand proof of the product being sold with that problem.

This warranty does not include damage produced by: inappropriate use or negligence, accidents, worn out parts due to use, breakages, burns, spilt liquids or other substances, excessive humidity, battery deterioration and internal manipulation of the device, the software or its components by unauthorized persons, and in general any use that is unrelated to the nature and purpose of the product.

If any service is needed during the warranty period because of lack of conformity, please contact the business or distributor where the product was purchased in no more than 2 months after being conscious of the problem. It is only necessary to contact **FONESTAR** if it is impossible or imposes an undue burden for them to solve it..

To benefit from this warranty it is necessary to show the proof of purchase with the date clearly visible, with no corrections or crossing out

This document adds information, and never decreases the consumers' rights, which in all cases are protected by the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre..



FONESTAR is a member of ECOEMBALAJES ESPAÑA, S.A. "ECOEMBES", with number 03497 and all our products carry the symbol, backed by our membership and subscription to the above mentioned organization with the recycling and subsequent management of our packaging.

FONESTAR S.A. - NIF A28780443 - Polígono Trascueto - 39600 Revilla de Camargo, Cantabria (Spain)