

ABI-MM1000SV2

Smart Music

Radio & Control Module

Installation and user guide

1 Contents

- Radio & Control Module (RCM) white
- Manual

2 Introduction

The ABI-MM1000SV2 Radio & Control Module (RCM) is an autonomous sound unit with LCD and touch keys that light up when touched.

The unit features the following:

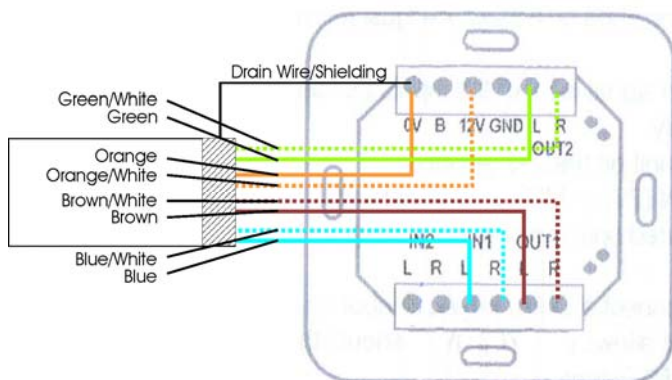
- Stereo FM RDS tuner
- 6 presets with automatic memory
- 2 stereo sources with input level adjustment
- Sound level control for 1 zone
- Line output for sound distribution (central)
- Control of loudness, bass and treble
- Alarm clock with gradually increasing sound
- Timer function for 15, 30 or 60 minutes.

3 General installation guidelines

3.1 Wall box

The RCM is installed in standard wall box e.g. Helia 75 or 76.

3.2 Connection diagram



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look for alternatives on
www.abitanadirect.com
 or contact info@abitana.com

4 Commands of the Radio & Control Module (RCM)



4.1 Controls and indications

The keys have the following functions:

- ⏻ - switch the unit on and off
- 📺 - presets or adjustment menu
- 🔍 - station search or next option
- ⏩ - increase the volume
- 📶 - input selection
- 🎵 - sound adjustment
- 🔍 - station search or previous option
- ⏪ - decrease the volume

When the unit is switched off, the LCD display shows the time and the day of the week and when the unit is switched on it shows the selected station or source.

4.2 Switch on/off

To switch on the unit, press ⏻:

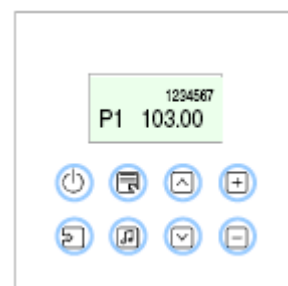
- the unit switches on with the latest selected source and volume.

Press again to switch the unit off.

4.3 Volume control

To increase the volume, press ⏩. Press ⏪ to decrease the volume.

4.4 FM tuner



Switch on the unit with ⏻ and press 📶 until P1 or another preset appears:

- the display shows the preset and frequency or name of the tuned station.

To search for another station within the preset, press 🔍 to search forward or 🔍 to search backward:

- manual search is done by pressing the key shortly;
- if you keep the key pressed for more than 1 second, automatic search is started (the frequency starts to "run");
- the new frequency is memorized automatically on the selected preset.

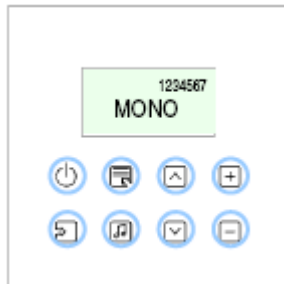
The tuner has 6 presets P1 up to P6 that are indicated on the left of the display.

To select the next preset press the key. In this way you can sequentially select the presets, jumping from P6 to P1 again. Each preset switches to the last selected station on this preset.

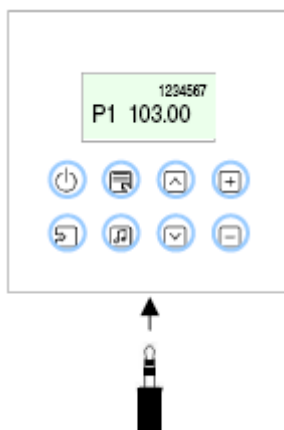
Reception of some stations may be weak causing noise. Selecting MONO can often improve the sound quality.

To switch between stereo and mono reception keep the key pressed for more than 1 second:

- the display shows the message MONO or STEREO during 1 second.



4.5 Auxiliary input



The unit has a 3.5mm jack for stereo sound input in the middle of the bottom part of the front panel.

This input overrules the tuner and it is therefore not necessary to select the respective input.

To return to hearing the tuner, simply pull out the jack.

This input has a different sensitivity than the audio inputs of the connections on the back of the unit. The source connected to this jack should therefore have a volume control (for instance an MP3 player), and the volume of the source should be adjusted to the same level as the tuner. In this way distortion as a result of a too strong input signal is avoided.

At this input you should not connect a CD since its output level is superior to the one permitted at this input.

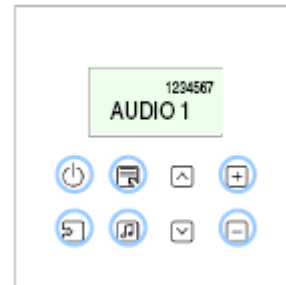
4.6 Audio inputs

The sound unit has 2 stereo inputs at the connections on the back. The installer makes the connection of these inputs on a wall panel with 3.5mm jack or RCA sockets.

The sound source (e.g. CD, MP3 or TV) can be connected permanently to these inputs.

- To select the input 1, press repeatedly until AUDIO 1 appears on the display.
- To select the input 2, press repeatedly until AUDIO 2 appears on the display.

Input 1 and 2 can have sources with different level. For instance, a CD or HiFi system have a line output that is superior to the one of a TV or TV receiver. Therefore it is necessary to adjust the input level so that the volume between the different sources is balanced and that the impact of Loudness is correct.



It is possible to select 2 input levels: CD IN and MP3 IN (the same level as a TV).

To select the input level press . CD IN or MP3 IN appears on the display:

- select the type of the desired source with the keys and ;
- the selection is automatically memorized for the selected input.



5 Sound adjustment

The Radio & Control Module (RCM) can adjust the sound for better adaptation to the room, to the performance of the speakers and to the taste of the user.

The sound adjustment is assumed for all inputs and also for both sound zones (outputs).

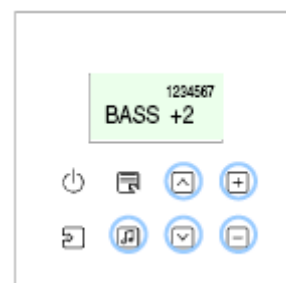
5.1 Bass

The bass balance is important for a nice sound. To increase the bass, press :

- the display indicates BASS 0.

To increase the bass tones press . To decrease press .

The display indicates the value. The bass tones can be regulated from -14 until +14 dB in 2dB steps.



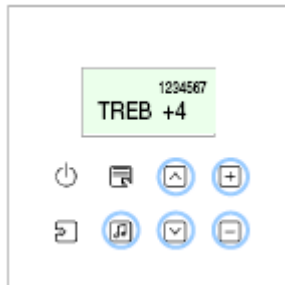
5.2 Treble

The treble balance is also important for a nice sound. To increase the treble, press **[TREB]**:

- the display shows TREB 0.

To increase the treble press **[▲]**. To decrease, press **[▼]**.

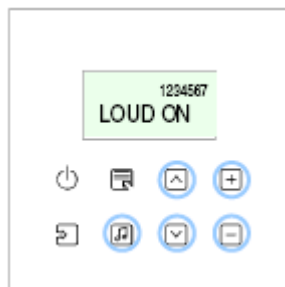
The display indicates the value. Treble can be regulated from -14 until +14 dB in 2dB steps.



5.3 Loudness

The human ear and its own speakers have a frequency response that depends on the sound level: when the volume is low, the bass tones and a little of the treble get lost.

The Loudness function corrects this defect by increasing the bass and treble when the volume is low. This adjustment reaches its maximum when the volume is very low and decreases gradually until 0 when volume is high.



A sound with Loudness is automatically equalized and therefore more enjoyable.

To turn the Loudness on and off, press **[TREB]** repeatedly until LOUD ON or LOUD OFF appears on the display. Press **[▲]** or **[▼]** to change.

- the selection is automatically memorized.

5.4 Search level adjustment

The floor, the place where the unit and the antenna is installed and the construction material are all of great influence on the radio reception capacity of the tuner. Therefore it is necessary to adjust the stop level of the search as in some places the antenna signal may be stronger than in another.

The unit has 16 search levels, from 0 to 15. The normal level is 7.

A high level makes the search only stop on the strong stations and a low level makes search also stop on the weaker stations.

A too low level makes the search stop in almost all frequencies in case of a too high level it may not stop at all.

Therefore, you should try to find the most appropriate value.

To select another search level, proceed as follows:

- Select the Tuner source with the key **[TUNER]**.

- Keep pressed **[TUNER]** for 5 seconds:

The display will show SL 7

- Now press **[▲]** to increase the search level or **[▼]** to decrease.

- Press **[TUNER]** to finish:

The unit switches off.

Switch on the unit with **[POWER]** and verify if the search works as desired. If not, repeat the procedure to select another level.



6 CLOCK FUNCTION

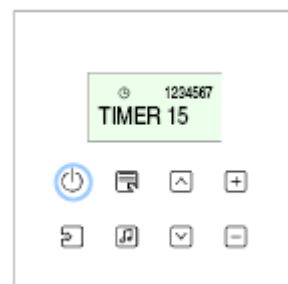
The sound units have an incorporated clock with alarm function and timer.

6.1 Timer

The unit can be switched on for a period of 15, 30, 45 or 60 minutes. To switch on the unit for a certain period, keep the **[POWER]** key pressed for more than 1 second: on the display appears the message TIMER 15. If you keep the **[POWER]** key pressed, this time is increased in steps the 15 minutes: 15 > 30 > 45 > 60 > 0.

Release the key when the desired time is indicated on the display.

The unit is switched off at the end of this time period.



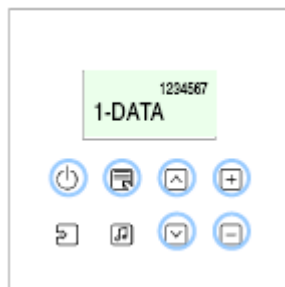
6.2 Adjustment menu

You can enter the adjustment menu of the unit by pressing . The following options are available:

1-DATA date and time adjustment

2-ALARME alarm adjustment

With and you can select the desired option.



6.3 Date and time adjustment

To adjust the date and time press in the option 1-DATA. With the and keys select the desired value for the digit. To go to the next digit, press , or to go to the former digit.

After defining the date, press to validate and go to the time adjustment.

Select the desired digit with the and keys.

To go to the next digit, press , or to go to the former digit.

After defining the time, press to validate and go to the time zone adjustment.

The zone defined for " _ " indicates that there is no automatic time adjustment for summer and winter time.

If, however, the zone is set to any value, the summer and wintertime will be adjusted automatically. This adjustment is made at the same time at 01:00 hrs on the last Sunday in March and at 02:00 on the last Sunday in October.

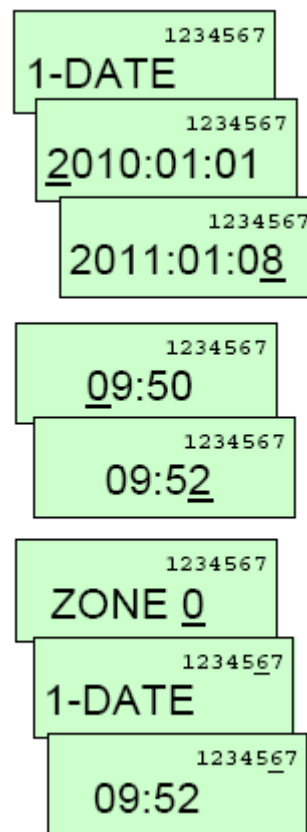
For continental Portugal the time zone is 0, since we are at the GMT time zone.

After defining the time zone, press to validate. The initial menu is selected again.

The day of the week is automatically adjusted. The scale of the weekdays is as follows:

- 1 = Monday
- 2 = Tuesday
- 3 = Wednesday
- 4 = Thursday
- 5 = Friday
- 6 = Saturday
- 7 = Sunday

Press to leave the menu.



6.4 Alarm clock adjustment

To adjust the alarm time press within the option 2-ALARME.

Select the desired digit with the and keys.

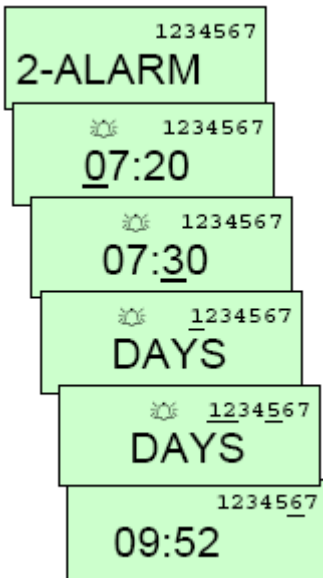
To go to the next digit, press , or to go to the former digit.

When the time is set, press to validate.

Now appears the option to define the days of the week that you wish the alarm clock to work. The one below the 1 (Monday) blinks. Pressing marks 1 (Monday) and passes to 2 (Tuesday). Pressing skips that day and passes to the next.


The alarm sounds at the defined time on the defined days.



ATTENTION: The alarm clock switches the unit on at the source which was last selected before switching off. If you do not have a sound source with continuous sound at the remote inputs (Audio 1 or Audio 2) you should select FM before switching the unit off so that the alarm switches on with radio.



6.5 Switching the alarm clock on and off

If the display does not show the alarm symbol (🔔) this means that the alarm clock is switched off and that there will not be an alarm.

To switch the alarm clock on, keep the key  pressed for more than 1 second while the unit is switched off.

The display shows a blinking alarm symbol (🔔) and the alarm time during 2.5 seconds. During this period you can adjust the volume with the keys  and .

If you stop pressing the keys, the display returns to normal.