

3. NFC

The SR 303 is capable of connection to devices using near field communication (NFC).
NFC technology allows communication between two electronic devices over a distance of a few cm.
The benefit of using NFC in the SR 303 is that the power used for communication comes from the mobile device and not the radio.
The ACR mobile app allows a user to record the details of the radio and battery on your account with ACR.
To use the app simply align your mobile device NFC antenna to the side of the V200 where you see "NFC". Once connected, details about your V200 will be displayed on your mobile device including the product name and serial number.

4. Approvals

4.1 European Declaration of Conformity

ACR Electronics Inc. declares equipment type SR 303 is in compliance with Dir. 2014/53/EU.

4.2 Approval documentation

For full details of global approval status visit:
<https://www.acrartex.com/products/sr303-vhf-handheld-survival-radio/>



5. Specifications

Operating time (Primary battery)	>8hours [10/10/80% Tx/Rx/Standby]
Transmit power (conducted) (Primary battery)	2.5 Watts / ≤1 Watt
Transmit power (conducted) (Rechargeable battery)	5 Watts / ≤1 Watt
Audio output (Max. Volume)	86dBa @1m
NFC Frequency	13.56MHz
Dimensions of VHF (Inc. antenna)	279mm x 64mm x 37mm [11.0 x 2.5 x 1.5 in.]
Weight - (VHF Only)	422grams (0.92lbs)
Dimensions of Single Base	52mm x 84mm x 64mm [2.0" x 3.3" x 2.5"]
Dimensions of Charging Base	53mm x 84mm x 84mm [2.1" x 3.3" x 3.3"]
Storage Temperature	-20°C to 60°C
Waterproof VHF	1m depth for 1hr
Expected Lifespan	10 years

912S-05837 v01.00

19/06/2025



SR303 GMDSS Handheld VHF Radio



DOWNLOAD THE FULL USER GUIDE

<https://www.acrartex.com/products/sr303-vhf-handheld-survival-radio/>

OWNER DETAILS

Name

Vessel

CONTACT

Tel.

Email

GET THE MOBILE APP. TO REGISTER YOUR HANDHELD VHF INFORMATION

Android



GET IT ON Google Play

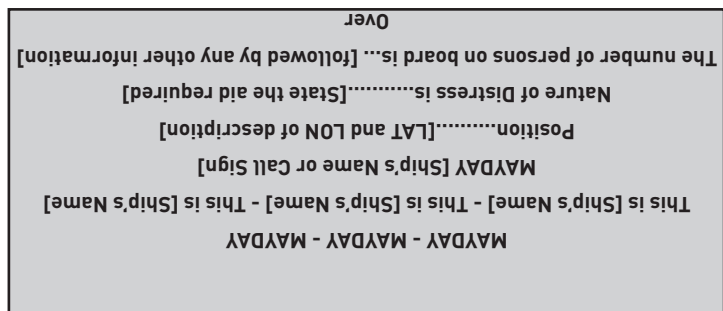
iOS



Download on the App Store

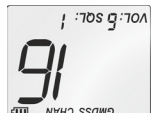


NFC Communication Enabled



To transmit a MAYDAY call the following procedure should be followed. Ensure the radio is turned on, channel 16 is selected and the **PUSH TO TALK** key is pressed. Announce the following clearly into the radio.

1. Before operation pull out the red security tag from the battery.
2. If the radio does not turn on automatically press the key (push the knob down).
3. The radio will turn on with the distress and calling channel 16 already selected.
4. Use the **▲** and **▼** keys to select a required channel. NOTE: Channels are restricted to GMDSS simplex only.
5. Rotate the knob or use the VOL key followed by the **▲** and **▼** keys to adjust the speaker volume.
6. Use the SQ key followed by the **▲** and **▼** keys to adjust the squelch (muting) level.
7. Use the **PUSH TO TALK** key to transmit.

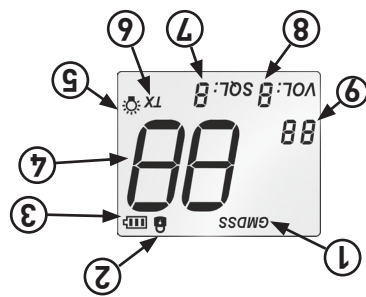


ENSURE THE GREEN LITHIUM BATTERY PACK IS FITTED

EMERGENCY USE

Basic Display Indications

1. Primary Battery Indicator
2. Keypad Locked
3. Battery Life
4. Channel Number
5. Backlight On
6. Push to Talk Pressed
7. Squelch Value (0-9)
8. Volume Value (0-9)
9. 4 Digit Channel Number (with 4)



Basic Parts

1. Antenna
2. ON/OFF and Multi Purpose Knob
3. Channel select Key
4. Multi Purpose Up/Down Key
5. Channel 16 select Key
6. Speaker and Microphone
7. Squelch select Key
8. Volume select Key
9. Push to Talk Key
10. LCD Display panel



1.1 GMDSS OPERATION

Ensure the radio is fitted with a charged battery before commencing use. The primary battery will have the witness label intact indicating that it has full capacity (the label must be removed to operate). The display will indicate GMDSS when operating in this emergency mode.

1.2 First Level Operation

Single quick press (single beep) of the buttons.

1.2.1 Switching On

Press and hold the  knob for >1 second to turn the SR 303 on. The LCD will illuminate and a beep will indicate power is on and the display will show the current information, with channel 16 as the selected channel.

1.2.2 Switching Off

Press and hold the  knob for 5 seconds to turn the radio off. The display will show a 3 second countdown, then the LCD will go blank.

1.2.3 Channel Selection

Press the  or  keys to scroll through the available channels or press the  button (the channel number will flash) and rotate the top knob.

1.2.4 Channel 16 selection

Pressing the  key will select channel 16. Pressing the  key again will revert to the previous channel.

1.2.5 Transmitting

Press the **PUSH TO TALK** key on the side of the radio to transmit. The microphone is located to the top left of the speaker grille. Release the key when you have finished talking.

- It is good practice to keep transmissions as short as possible. This will minimise battery discharge and ensure that you are not interfering with other users of the channel.
- Ensure the correct channel is selected and that there is no other transmission audible before pressing the **PUSH TO TALK** key to avoid interference with other users.

1.2.6 Volume Adjustment

Rotate the knob to increase or decrease the speaker volume or press the  key (the VOL level will flash) and then use the  or  keys to increase or decrease the speaker volume. The volume is displayed as levels 0 (mute) to 9 (loudest).

1.2.7 Squelch Adjustment

Press the  key (the SQ level will flash) and then use the  or  keys or the knob to increase or decrease the squelch value. The squelch value is displayed as levels 0 (most sensitive) to 9 (least sensitive).



The squelch should be adjusted to a level where background noise and weak, unreadable signals do not open the mute.

2.1.3 Channel Selection

Press the  or  keys to scroll through the available channels or press the  button (the channel number will flash) and rotate the top knob.

2.1.4 Channel 16 selection

Pressing the  key will select channel 16. Pressing the  key again will revert to the previous channel.

2.1.5 Transmitting

Press the **PUSH TO TALK** key on the side of the radio to transmit. The microphone is located to the top left of the speaker grille. Release the key when you have finished talking.

- It is good practice to keep transmissions as short as possible. This will minimise battery discharge and ensure that you are not interfering with other users of the channel.
- Ensure the correct channel is selected and that there is no other transmission audible before pressing the **PUSH TO TALK** key to avoid interference with other users.

2.1.6 Volume Adjustment

Rotate the knob to increase or decrease the speaker volume or press the  key (the VOL level will flash) and then use the  or  keys or the top knob to increase or decrease the speaker volume. The volume is displayed as levels 0 (mute) to 9 (loudest).

2.1.7 Squelch Adjustment

Press the  key (the SQ level will flash) and then use the  or  keys or the top knob to increase or decrease the squelch value. The squelch value is displayed as levels 0 (most sensitive) to 9 (least sensitive).



The squelch should be adjusted to a level where background noise and weak, unreadable signals do not open the mute.

Experience will show what the best setting is for the local environment.

2.1.8 Backlight Adjustment

To turn the lights on or off and adjust the level, press the  knob and hold for 2 seconds (the light icon and light level number will flash), rotate the top knob or press the  or  keys to adjust the backlighting level from off through five levels to maximum. After two seconds of inactivity the operation of the selection keys will revert to channel change.

The lights will stay on for a period of 10 sec (default) or as set in the menu. Pressing any key will reactivate the lights.

1.2.8 Backlight Adjustment

To turn the lights on or off and adjust the level, press the  knob and hold for 2 seconds (the light icon will flash), rotate the knob or press the  or  keys to adjust the backlighting level from off through five levels to maximum. After two seconds of inactivity the operation of the selection keys will revert to channel change.

The lights will stay on for a period of 10 sec (default) or as set in the menu. Pressing any key will reactivate the lights.

1.3 Second Level Operation

Press and hold (double beep) of the buttons.

1.3.1 Transmit Power

To set the transmit power to low press and hold for 2 seconds the  until a double beep sounds. The display will show SET Lo for 2 seconds and then Lo will appear alongside the channel number.

To return to full power press and hold for 2 seconds the  until a double beep sounds. The display will show SET Hi for 2 seconds and the channel number only will be displayed.

NOTE: Channels mandated to transmit at low power will always display Lo alongside the channel number.

1.4 Third Level Operation

A long hold down (3 beeps) of the buttons.

1.4.1 Key Lock

Press and hold the  key for 3 seconds until a triple beep is heard to lock the keypad against accidental use. Press and hold  key for 3 seconds until a triple beep is heard to unlock the keypad. (The key lock will be disabled when the radio is turned off.)

NOTE: The default setting for the key lock is off.

2. RECHARGEABLE OPERATION

Ensure the radio is fitted with a charged battery before commencing use.

2.1 First Level Operation

Single quick press (single beep) of the buttons.

2.1.1 Switching On

Press and hold the  knob for >1 second to turn the SR 303 on. The LCD will illuminate and a beep will indicate power is on and the display will show the current information, with channel 16 as the selected channel.

2.1.2 Switching Off

Press and hold the  knob for 5 seconds to turn the radio off. The display will show a 3 second countdown, then the LCD will go blank.

2.2 Second Level Operation

Press and hold (double beep) of the buttons.

2.2.1 Transmit Power

Press and hold for 2 seconds the  until a double beep sounds then release. The display will show SET Lo for 2 seconds and then Lo will appear alongside the channel number.

To return to full power press and hold for 2 seconds the  until a double beep sounds. The display will show SET Hi for 2 seconds and the channel number only will be displayed.

2.2.2 Dual Watch

Press and hold for 2 seconds the  key until a double beep is sounded then release. The display will indicate DW and the radio will alternate receiving between the selected channel and channel 16. If a signal is received then the scan will pause and receive that channel until the transmission is ended.

2.2.3 Scan

Press and hold for 2 seconds the  key until a double beep is sounded then release. The display will indicate SCAN and the radio will start scanning the complete channel set looking for a signal. If a signal is received then the scan will pause and receive that channel until the transmission is ended.

2.3 Third Level Operation

A long hold down (3 beeps) of the buttons.

2.3.1 Keylock

Press and hold the  key for 3 seconds until a triple beep is heard, then release to lock the keypad against accidental use. Press and hold  key for 3 seconds until a triple beep is heard to unlock the keypad. (The key lock will be disabled when the radio is turned off.)

NOTE: The default setting for the key lock is off.

2.3.2 Tri-Watch

Press and hold for 3 seconds the  key until a triple beep is sounded then release. The display will indicate TW and the radio will alternate receiving between the selected channel, the Calling Channel and channel 16. If a signal is received then the scan will pause and receive that channel until the transmission is ended.

2.3.3 Calling Channel

Press and hold for 3 seconds the  key until a triple beep is sounded then release. The display will indicate CALLING and change to the set Calling Channel.