

POS FIX WAIT	Sets the maximum wait time to obtain position information when receiving a Distress Alert, POS Report call, or acknowledgement to POS request call	15 sec
DSC BEEP	Turns the audible alarm ON or OFF when receiving a DSC call	Indivi.: On All Ship: On Group: On POS RQ.: Off POS RP.: On Geog.: On Polling: Off Test Call: Off

## 17. GPS SETUP

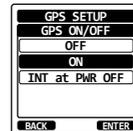
The “GPS Setup” mode allows the parameters for the **HX890** internal GPS unit to be customized for your operating requirements.

### 17.1 GPS ON/OFF

This selection allows the internal GPS unit to be turned ON or OFF to conserve battery power. The default setting is “ON”.



- Press the **CH▼/CH▲** key to select “OFF”, “ON”, or “INT and PWR OFF”.  
 OFF: GPS OFF  
 ON: GPS ON  
 INT and PWR OFF: GPS ON, even when the transceiver is OFF.
- Press the **[ENTER]** soft key to save the new setting.
- Press the **CLR** key to return to radio operation.

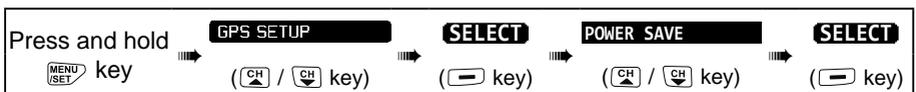


#### NOTE

When “INT and PWR OFF” is set, the battery is depleted little by little because the internal GPS unit is activated. When the transceiver is OFF with “INT and PWR OFF” is set, charge the battery by connecting the Charger cradle.

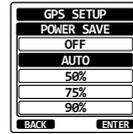
### 17.2 POWER SAVE

This menu item selects the Battery Save Mode for the internal GPS unit. The default setting for the Power Save Mode is “AUTO”.



1. Press the **CH▼/CH▲** key to select the desired level.

OFF: GPS signals are always being received.



AUTO: Activates the GPS receiver automatically when GPS signals are received.

50%: Activates the GPS receiver for 3 seconds every 3 seconds.

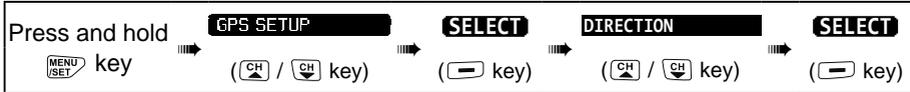
75%: Activates the GPS receiver for 3 seconds every 9 seconds.

90%: Activates the GPS receiver for 3 seconds every 27 seconds.

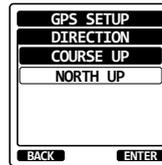
2. Press the **[ENTER]** soft key to store the selected setting.
3. Press the **CLR** key to return to radio operation.

### 17.3 DISPLAY DIRECTION

This menu item selects the compass orientation to be shown on the **HX890** display. The default setting is “course up”.



1. Press the **CH▼/CH▲** key to select the desired direction from “COURSE UP” and “NORTH UP”.
2. Press the **[ENTER]** soft key to save the new setting.
3. Press the **CLR** key to return to radio operation.

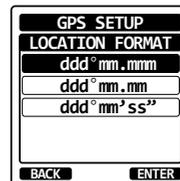


### 17.4 LOCATION FORMAT

This menu item selects the coordinate system to be shown on the **HX890** display. The default setting is “ddd mm.mmm”.



1. Press the **CH▼/CH▲** key to select the desired coordinate system. The location format can be selected from “ddd°mm.mmm”, “ddd°mm.mm”, and “ddd°mm’ss”.
2. Press the **[ENTER]** soft key to save the new setting.
3. Press the **CLR** key to return to radio operation.



### 17.5 TIME OFFSET

Sets the local time offset between UTC (Universal Time Coordinated) and local

time shown on the display. The offset is added or subtracted from the time received from the GPS.

Refer to section “7.5 CHANGING THE GPS TIME” for details.

## 17.6 TIME AREA

This menu item sets the clock to show UTC time or local time with the offset. Refer to section “7.6 CHANGING THE TIME LOCATION” for details.

## 17.7 TIME FORMAT

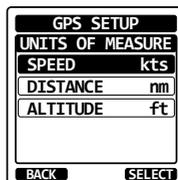
This menu item allows setting the clock to show time in 12-hour or 24-hour format. Refer to section “7.7 CHANGING THE TIME FORMAT” for details.

## 17.8 UNITS OF MEASURE

This section allows setting the display units of the speed, distance and altitude.



1. Press the **CH▼/CH▲** key to select the item to be set.
2. Press the **[SELECT]** soft key.
3. Press the **CH▼/CH▲** key to select the unit.
4. Press the **[ENTER]** soft key to store the new setting.
5. Press the **CLR** key to return to radio operation.

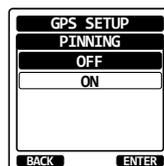


## 17.9 PINNING

This selection is used to enable or disable position updates when the vessel is not underway. The default setting is “OFF”.

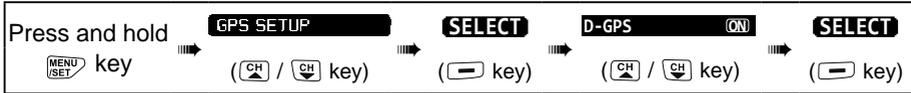


1. Press the **CH▼/CH▲** key to select “ON” or “OFF”.  
ON: When pinning is turned on, the **HX890** will not update its position unless the vessel travels over 10Ft.  
OFF: Whether the vessel is underway or stopped, the **HX890** continuously updates its position. This improves accuracy of the position fix.
2. Press the **[ENTER]** soft key to save the new setting.
3. Press the **CLR** key to return to radio operation.



## 17.10 SBAS (Satellite Based Augmentation System)

This selection enables or disables SBAS such as WAAS, EGNOS and MSAS as some areas (Australia for example) can have problems with GPS reception with SBAS enabled. The default setting is "ON".



1. Press the **CH▼/CH▲** key to select "ON" or "OFF".
2. Press the **[ENTER]** soft key to store the new setting.
3. Press the **CLR** key to return to radio operation.

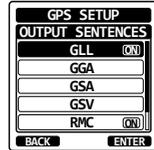


## 17.11 OUTPUT SENTENCES

This selection is used to setup the NMEA output sentences of the HX890. By default, all the NMEA sentences are turned "OFF".



1. Press the **CH▼/CH▲** key to select the desired sentence type, then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to select "ON" or "OFF".
3. Press the **[ENTER]** soft key to save the new setting.
4. Repeat steps 5 through 7 to set the other sentences.
5. Press the **CLR** key to return to radio operation.



## 17.12 LOGGER INTERVAL

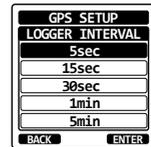


1. Press the **CH▼/CH▲** key to select the desired time and press the **[ENTER]** soft key.

**Note:** Log time for each logger interval setting

- 5 sec: Aprox. 8 hours
- 15 sec: Aprox. 25 hours
- 30 sec: Aprox. 50 hours
- 1 min: Aprox. 100 hours
- 5 min: Aprox. 500 hours

2. Press the **CLR** key to return to radio operation.



## 17.13 LOG ERASE



1. Press the **CH▼/CH▲** key to select “CANCEL” or “OK”, then press the **[ENTER]** soft key.
2. Press the **CLR** key to return to radio operation.



## 17.14 SUMMARY OF THE GPS SETUP

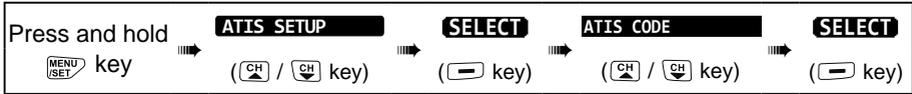
Item	Description	Default Value
GPS ON/OFF	Turns on or off the GPS receiver	ON
POWER SAVE	Selects the power save mode of the GPS unit	AUTO
DIRECTION	Selects the compass direction to be displayed	COURSE UP
LOCATION FORMAT	Selects the coordinate system to be displayed	ddd°mm.mmm
TIME OFFSET	Sets the offset time from the UTC (available only when “LOCAL” is selected in the item “TIME AREA”)	00:00
TIME AREA	Selects the time location to be displayed, from UTC or local	UTC
TIME FORMAT	Selects the time format to be displayed, 12-hour or 24-hour (fixed to “24H” when “UTC” is selected in the item “TIME AREA”)	24H
UNITS OF MEASURE	Selects the unit of measure when displaying speed, distance, and altitude	SPEED: kts DISTANCE: nm ALTITUDE: ft
PINNING	Turns GPS position updates ON or OFF for vessel not underway	OFF
D-GPS	Turns use of SBAS	ON
OUTPUT SENTENCES	Selects a sentence to be output to the USB terminal	OFF
LOGGER INTERVAL	Selects the logging interval time	1 min
LOG ERASE	Erases the log data	-

## 18. ATIS SETUP (HX890E only)

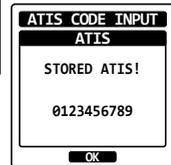
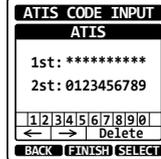
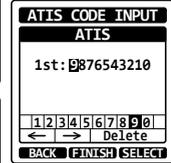
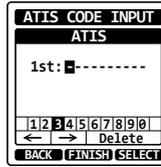
The **HX870E** supports the ATIS (Automatic Transmitter Identification System) used in Inland waterways in Europe. When enabled ATIS mode transmits a unique ATIS code each time the PTT switch is released at the end of a transmission.

Users should check with their local marine regulatory authority in their country for assistance in obtaining an ATIS code.

## 18.1 ATIS CODE PROGRAMMING



1. Press the ◀/▶ key to select the first numeral of your ATIS, then press the **[SELECT]** soft key to step to the next numeral.
2. If the ATIS number has been entered twice, continue with step 5 to set your ATIS number (ten digits).
3. If a mistake was made entering in the ATIS, press the CH▼/CH▲/◀/▶ key to select “<-” or “->”, press the **[SELECT]** soft key until the wrong number is selected, then perform step 1.
4. When finished programming the number, press the **[FINISH]** soft key. The Radio will ask you to input the ATIS number again. Perform steps 1 through 4 above.
5. After the number has been input a second time, press the **[FINISH]** soft key to store the ATIS number in memory.
6. Press the **[OK]** soft key to return to radio operation.

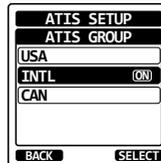
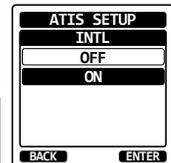


## 18.2 ATIS CH GROUP

The **HX870E** ATIS feature may be enabled or disabled for each channel group.



1. Press the CH▼/CH▲ key to select the channel group (International, Canadian, or USA) you wish to change the setting, and press the **[SELECT]** soft key.
2. Press the CH▼/CH▲ key to select “ON” or “OFF”.
3. Press the **[SELECT]** soft key to save the new setting.
4. If you want to set the ATIS feature to another channel group, repeat step 1 through 3.
5. Press the **CLR** key to return to radio operation.



## 19. MAINTENANCE

### 19.1 GENERAL

The inherent quality of the solid-state components in STANDARD HORIZON radios will provide many years of continuous use. Take the following precautions to prevent damage to the radio:

- Never key the microphone unless an antenna or suitable dummy load is connected to the transceiver
- Use only STANDARD HORIZON-approved accessories and replacement parts.

### 19.2 FACTORY SERVICE

In the unlikely event that the radio fails to perform or needs servicing, please contact one of following:

#### In USA and Canada

##### Standard Horizon

##### Attention Marine Repair Department

6125 Phyllis Drive, Cypress, California 90630, U.S.A.

Telephone (800) 366-4566

#### In Europe

##### Yaesu (UK) Ltd

Unit 12, Sun Valley Business Park, Winnall Close

Winchester, Hampshire, SO23 0LB, U. K.

Telephone +44 (0)1962 866667

#### In Other Countries

Contact the dealer or the distributor.

### 19.3 Reset the USER MMSI and ATIS CODE

If the MMSI number and ATIS code (**HX890E** only) need to be reset. Please contact Standard Horizon to obtain the required reset codes.

#### 19.3.1 To request the Reset Code

Contact Standard Horizon and confirm the following required information.

- The Information Necessary to obtain the Reset Code
  - Model name
  - Serial number
  - Current MMSI number and ATIS code  
(To check the MMSI number and ATIS code, refer to 11.2 MARITIME MOBILE SERVICE IDENTITY (MMSI) or 18. ATIS SETUP (**HX890E** only).
  - Request codes for the MMSI number and the ATIS code

(See “Checking the Request code” below).

• Contact Information

• **USA/Canada**

E-mail: marinetech@yaesu.com

Telephone: (800) 767-2450

• **Europe**

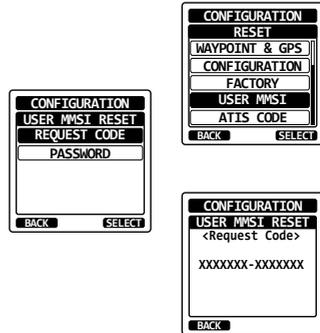
E-mail: service@yaesu.co.uk

Telephone: +44 (0)1962 866667

### 19.3.2 Checking the Request code



1. Press the CH▼/CH▲ key to select “**USER MMSI**” or “**ATIS CODE**”, then press the **[SELECT]** soft key.  
The **RESET** screen will appear.
2. Press the **[SELECT]** soft key again.  
The request code will be displayed.



#### **NOTE**

When resetting both “**USER MMSI** and “**ATIS CODE**”, both request codes are required.

### 19.3.3 Resetting the USER MMSI and ATIS codes

Here is the procedure for resetting the **USER MMSI** and **ATIS** codes after obtaining the reset codes.

1. The **RESET** screen is displayed on step 1 in “**Checking the Request code**”.
2. Press the CH▼/CH▲ key to select “**PASSWORD**”, then press the **[SELECT]** soft key.  
The password input screen will appear.

