YAESU

Radio for Professionals

HF/50/144/430MHz ALL MODE TRANSCEIVER

FTX-1series

Instruction Manual (APRS Edition)

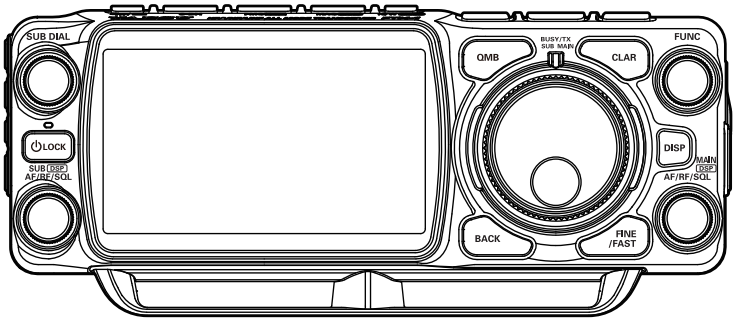


Table of Contents

APRS® initial settings

Position data may be entered manually in advance or automatically from the built-in GPS satellite receiver.

When an APRS signal is received from a partner station, the direction, distance, speed etc. of the partner station as seen from your own station will be shown on the display of your transceiver.

When operating APRS using the GPS function

In order to use the GPS satellite data for the station position information, press and hold the [**FUNC**] knob → [**EXTENSION SETTING**] → [**MY POSITION**] → [**MY POSITION**] press the [**FUNC**] knob → rotate the **FUNC** knob to select [**GPS**].

Factory setting value: GPS

Then proceed to "**Setting this station callsign**" (Page 5).

When operating APRS without using the GPS function

When operating APRS without using the GPS function, follow the procedure below to manually set the clock and position information.

- **Setting the position information**

Enter the station position information manually.

1. Press and hold the [**FUNC**] knob → [**EXTENSION SETTING**] → [**MY POSITION**] → [**MY POSITION**].
2. Press the [**FUNC**] knob.
3. Rotate the [**FUNC**] knob to select [**MANUAL**].
   Factory setting value: GPS
4. Rotate the [**FUNC**] knob to select [**MY POSITION LATITUDE**] and then press the [**FUNC**] knob.
   A screen to enter the position information of your own station will be displayed.
5. Touch to select "**N** (North Latitude)" or "**S** (South Latitude)".
6. Touch the latitude on the screen.
7. After entering the latitude, touch [**ENT**].
8. Rotate the [**FUNC**] knob to select [**MY POSITION LONGTUDE**] and then press the [**FUNC**] knob.
9. Touch to select "**E** (East Longitude)" or "**W** (West Longitude)".
10. Touch the longitude on the screen.
11. After entering the longitude, touch [**ENT**].
12. Press the [BACK] key several times to return to normal operation.

GPS Information screen

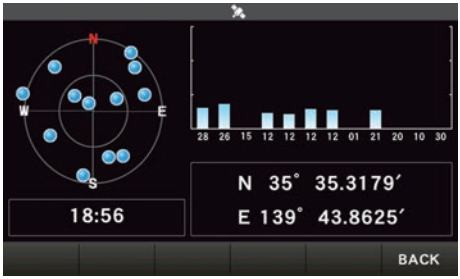
Displays the status of signals received from GPS satellites and related information.

1 Press and hold the [**FUNC**] knob.

2 Touch [**APRS S.LIST**].

3 Touch [**GPS**].
The GPS information screen appears.

4 Touch [**BACK**], to return to the previous screen.



Setting this station callsign

Register this station callsign in order to send and receive messages and to transmit beacons in APRS. Enter the callsign like “W6DXC-9”. The “-9” in the callsign indicates the SSID (Secondary Station Identifier) of which there are 16 types, including one with no SSID. Generally, the SSIDs shown in the table below are used in APRS.

SSID	Description	SSID	Description
(NIL)	Fixed stations that can exchange messages	-8	Marine mobile stations, land mobile stations
-1	1200 bps narrow-to-middle band digipeater	-9	Using the FTX-1 etc. for mobile applications
-2	9600 bps digipeater	-10	I-Gate station, Internet connection station
-3	1200 bps broadband digipeater	-11	Balloons, aircraft, spacecraft, etc.
-4	Digipeater, mobile station, meteorological station, etc.	-12	1-way tracker station (messages cannot be exchanged)
-5	Operation station using mobile devices (smartphones etc.)	-13	Meteorological station (weather station)
-6	Operation station for satellite communications, events, etc.	-14	Tracking mobile stations
-7	Use of FT5D etc. in handy terminals	-15	Digipeater, mobile station, meteorological station, etc.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SETTING**] → [**GENERAL**] → [**CALLSIGN (APRS)**] → press the [**FUNC**] knob.
The text input screen will be displayed.

2 Input the callsign and the SSID in the character input screen.

3 After entering the callsign, touch [**DENT**].

4 Press the [BACK] key several times to return to normal operation.

Setting the APRS modem

Turn on the APRS modem to activate the APRS function.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SETTING**] → [**GENERAL**] → [**MODEM SELECT**] → press the [**FUNC**] knob.

2 Rotate the **FUNC** knob to set to select [**AUTO**], [**MAIN**] or [**SUB**].
AUTO: APRS operation will be fixed to the side shown with the small numbers.
MAIN: Always operate on the MAIN-side.
SUB: Always operate on the SUB-side.

3 Press the [BACK] key several times to return to normal operation.
The display will show “**A12**” (for 1200 bps) or “**A96**” (for 9600 bps) on the display.

- **Stop APRS operation**

1 Set it to [**OFF**] in step 2 above.

Setting the APRS baud rate

This sets the APRS baud rate.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SETTING**] → [**GENERAL**] → [**MODEM TYPE**] → press the [**FUNC**] knob.

2 Rotate the **FUNC** knob to select the APRS baud rate.

1200bps: APRS operations using AFSK 1200bps packets

9600bps: APRS operations using GMSK 9600bps packets

3 Press the [BACK] key several times to return to normal operation.

Setting the APRS operating frequency

The customary APRS operating frequency differs depending on the region and country. In the USA, the usual operating frequency is 144.39MHz. Therefore, to begin APRS operations set the frequency to 144.39MHz.

1 Setting the APRS operating frequency.

Check that A12 (1200bps) or A96 (9600bps) is displayed on the right-hand side of the frequency.

Other initial settings

Changing the station symbol

This sets the station APRS transmit symbol.

The default setting when shipped from the factory is “ICON 1 /> (Car)”.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SETTING**] → [**MY SYMBOL**] → [**MY SYMBOL**] → press the [**FUNC**] knob.

2 Rotate the [**FUNC**] knob to select the symbol.

The following three symbol types can be selected as your own symbol: “ICON 1”, “ICON 2” and “ICON 3”.

3 To use the currently set symbol as is, press the [BACK] key several times to return to normal operation.

4 Rotate the [**FUNC**] knob to select the [ICON1], [ICON2] or [ICON3].

5 Rotate the [**FUNC**] knob to select symbol and set the symbol to use.

The default value of each symbol is as follows.

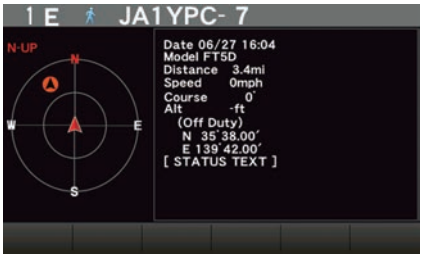
MY SYMBOL	Symbol
ICON 1	/> (Car)
ICON 2	/R (REC.Vehicle)
ICON 3	/- (House QTH (VHF))

6 Press the [BACK] key several times to return to normal operation.

Receiving beacons

- **Displaying beacons in the APRS pop-up screen**

A alarm will sound when a beacon is received, and the APRS pop-up screen will be displayed.



Tips

- When receiving a beacon from a station with the same APRS call sign. From the second time onward, the pop-up screen will not be displayed if the status text contained in the beacon is not changed.

- **Displaying beacons in the APRS STATION LIST detail screen**

1 Press and hold the [**FUNC**] knob → touch [**APRS S.LIST**].
The APRS STATION LIST screen will be displayed.

2 Rotate the [**FUNC**] knob to select the beacon whose details you want to review.

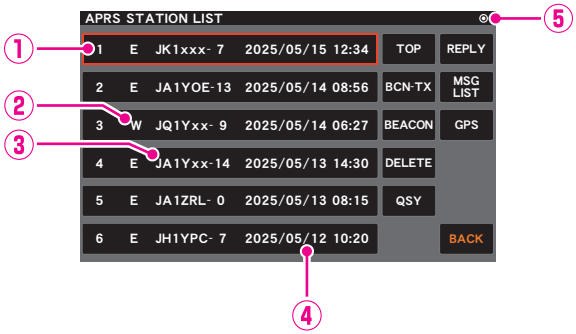
3 Press the [**FUNC**] knob to display the details screen.

4 Press the [**BACK**] key.
Returns the screen to the APRS STATION LIST screen.

Tips

- When [**APRS FILTER**] → [**STATION LIST**] is set to on, a received beacon matching the filter setting will be stored and shown on the display.
- The reception of an APRS beacon is notified by a ringing sound set in [**APRS FILTER**] → [**RINGER**] in the setup menu. If “OFF” is selected, no audio alarm will sound upon receiving a beacon.

Description of the APRS STATION LIST screen and operations



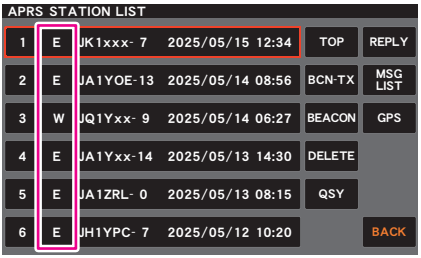
① **Number:** Received beacons (up to a maximum of 100) will be displayed, starting with the most recent one received.
② **Character:** The station list characters will be displayed.
Refer to the following page for details.
③ **Station name:** The callsign or object name / item name of the received beacon will be displayed.
④ **Date / Time:** Date (YYYY/MM/DD) / Time (HH:MM) will be displayed.
⑤ **Beacon auto / manual transmission icon:**
Do not display (MANUAL), Display "◉" (AUTO), Display "◯" (SMART) (page 16).

• Operation

Scroll the screen	Rotate the [**FUNC**] knob.
Move to the "APRS STATION LIST" detail screen (page 11)	Rotate the [**FUNC**] knob to select the beacon whose details you want to see and press the [**FUNC**] knob.
Move to the top of the APRS STATION LIST	Touch [**TOP**]
Replying messages (page 26)	Touch [**REPLY**]
Manual transmission of a beacon (page 16)	Touch [**BCN-TX**]
Move to the APRS MESSAGE LIST screen (page 19)	Touch [**MSG LIST**]
Switch ON / OFF of automatic beacon transmission (page 16)	Touch [**BEACON**]
Move to the GPS Information screen (page 4)	Touch [**GPS**]
Delete a selected beacon station from the display (page 10)	Touch [**DELETE**]
Sets the frequency of the opposite band of the APRS operating band according to the frequency information included in the beacon.	Touch [**QSY**]

- **Description of Station List Character**

Examples of station list characters are described here.



Display	Description
E	Mic-E: Displayed when a beacon of a Mic-E station is received
P	Position: Displayed when the beacon from a fixed station (FIXED) or a mobile station (MOVING) is received
p	Position: Displayed when the beacon of a fixed station (FIXED) or a mobile station (MOVING) is received (compression type)
W	Weather report: Displayed when the beacon of a meteorological station is received
w	Weather report: Displayed when the beacon of a meteorological station is received (compression type)
O	Object: Displayed when the beacon of an object station is received
o	Object: Displayed when the beacon of an object station is received (compression type)
I	Item: Displayed when the beacon of an item station is received
i	Item: Displayed when the beacon of an item station is received (compression type)
K	Killed Object/Item: Displayed when a deleted object station or item station is received
k	Killed Object/Item: Displayed when a deleted object station or item station is received (compression type)
S	Status: Displayed when the beacon of a status station is received
G	Raw NMEA: Displayed when Raw NMEA data (GGA / GGL / RMC) is received
?	Other: Displayed when a beacon that cannot be interpreted is received
Emg	Displayed when an emergency signal from a Mic-E station is received

Tips

- When the transceiver is turned ON, if the detail screen is displayed before the GPS satellites are acquired, the position arrow and distance will not be displayed.
- If GPS satellite information is no longer available due to obstructions such as buildings, tunnels, etc., the most recently acquired coordinates (position arrow, latitude / longitude, distance) will be displayed. The accurate position information will be displayed again when you move to a position that can be located.

Deleting a beacon station from the list

A beacon station which is no longer required can be deleted from the list by selecting it on the APRS STATION LIST screen.

1 Press and hold the [**FUNC**] knob → touch [**APRS S.LIST**].
The APRS STATION LIST screen will be displayed.

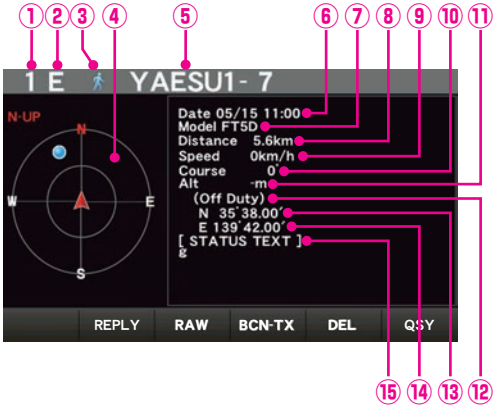
2 Rotate the [**FUNC**] knob to select the beacon.

3 Touch [**DELETE**].
A confirmation message “DELETE?” will appear in the display.

4 Touch [**OK**].
The callsign will be deleted from the list.

- **Explanation of the detail screen display in an E (Mic-E) APRS STATION LIST and description of operations**

Rotate the **DIAL** knob in the APRS STATION LIST screen to select the "**E**" station and press the **DIAL** knob to display the E (Mic-E) detailed screen.



① **Number:** The number of received beacon (up to a maximum of 100).
② **Character:** The station list characters will be displayed.
③ **Symbol:** The symbol of the radio station will be displayed.
④ **Compass:** The direction of the partner station as seen from your own station will be displayed.
⑤ **Callsign:** The received station callsign will be displayed.
⑥ **Date/Time:** The date the beacon was received (MM/DD) will be displayed.
The time the beacon was received (HH:MM) will be displayed.
⑦ **Type code:** The type code used by the partner station will be displayed (Mic-E, McE-Trk, McE-Msg and model name of the radio, etc.)
⑧ **Distance:** Distance to the received station will be displayed.
⑨ **Speed:** The moving speed of the partner station will be displayed.
⑩ **Direction:** The direction of movement of the partner station will be displayed.
⑪ **Altitude:** The altitude of the partner station will be displayed.
⑫ **Position comment:**
The position comments of the partner station will be displayed.
When an emergency message is received, the message (Emergency!) is displayed and a sound will be repeated 12 times.
⑬ **Latitude:** The N (north latitude) or S (south latitude) of the current position will be displayed (DDMM.MM or DDMMSS).
⑭ **Longitude:** The E (east longitude) or W (west longitude) of the current position will be displayed (DDMM.MM or DDMMSS).
⑮ **STATUS TEXT:** The comments information will be displayed.

- **Operation**

Replying messages (page 26)	Touch [**REPLY**]
Display the packet data (raw data) (page 15)	Touch [**RAW**]
Manual transmission of a beacon (page 16)	Touch [**BCN-TX**]
Delete a selected beacon station from the display (page 10)	Touch [**DEL**]
Sets the frequency of the opposite band of the APRS operating band according to the frequency information included in the beacon.	Touch [**QSY**]

APRS reception pop-up setting

This sets the display time of the pop-up that appears when an APRS beacon and message is received.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS FILTER**] → [**POPUP**].

2 Rotate the [**FUNC**] knob to select [**BEACON**] or [**MESSAGE**], then press the [**FUNC**] knob.

3 Rotate the [**FUNC**] knob to select the pop-up time when a beacon or message is received, then touch [**BACK**].

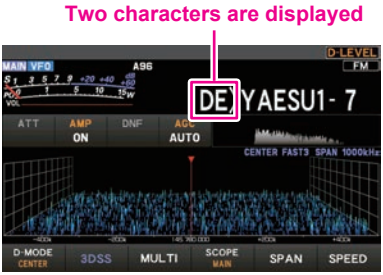
Factory default value: 10 sec

OFF	The display will not change even if a beacon or message is received.
3 sec, 5 sec, 10 sec	Select the pop-up screen (compass screen or message screen) time.
HOLD	The pop-up screen (compass screen or message screen) will continue to be displayed until you perform a key press.

4 Press the [BACK] key several times to return to normal operation.

Display to notify reception of the same beacon or message

When receiving the same beacon or message from the same partner station, the following screen is displayed. The display time is according to the setting in “POPUP” of the setup menu in the previous section.



The first two alphabetical characters displayed in front of the callsign of the partner station contain the following meaning.

First digit

- **N** = New: New signal
- **D** = Duplicate: Received signal
- **A** = ACK: Message ACK signal
- **R** = Reject: Message REJ signal
- **O** = Other: Message to other stations

Second digit

- **E** = Mic-E: Beacon of a mike encoder station
- **P** = Position: Beacon of a fixed station (FIXED) / mobile station (MOVING)
- **p** = Position: Beacon of a fixed station (fixed) / mobile station (moving) (compression type)
- **W** = Weather report: Beacon of a meteorological station
- **w** = Weather report: Beacon of a meteorological station (compression type)
- **O** = Object: Beacon of an object station
- **o** = Object: Beacon of an object station (compression type)
- **I** = Item: Beacon of an item station
- **i** = Item: Beacon of an item station (compression type)
- **K** = Killed Object/Item: Deleted object station / item station
- **k** = Killed Object/Item: Deleted object station / item station (compression type)
- **S** = Status: Beacon of a status station
- **M** = Message
- **G** = Raw NMEA: Beacon of a Raw NMEA
- **?** = Other: Beacon that could not be interpreted

Audio notification of a beacon or message received APRS RINGER function

An audio notification can be set to sound when an APRS beacon arrives from a partner station.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS FILTER**] → [**RINGER**].

2 Rotate the [**FUNC**] knob to select the item to be set, and then press the [**FUNC**] knob.

TX BEACON: OFF / ON
RX BEACON: OFF / ON
TX MESSAGE: OFF / ON
RX MESSAGE: OFF / ON
MY PACKET: OFF / ON

3 Rotate the [**FUNC**] knob to select “ON” or “OFF”, then press the [**FUNC**] knob.

4 Repeat step 2 and 3 to set the remaining items.

5 Press the [BACK] key several times to return to normal operation.

Displaying RAW packet data

Display the packet data (raw data) of the partner station from the APRS STATION LIST detail screen.

1 Press and hold the [**FUNC**] knob.

2 Touch [**APRS S.LIST**].

The APRS STATION LIST screen will be displayed.

3 Rotate the [**FUNC**] knob to select the beacon, then press the [**FUNC**] knob.

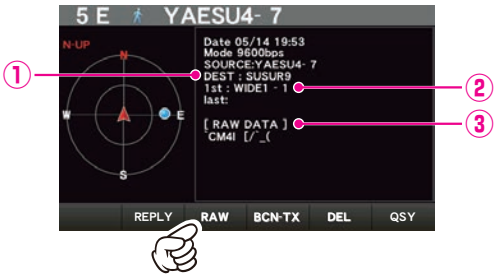
A detail screen of the APRS STATION LIST will appear in the display.

4 Touch [**RAW**].

The RAW packet data will appear in the display.

5 Touch [**RAW**] again to return to the detail screen.

Details of RAW packet data display screen



①**Destination information:** View the destination address information of AX.25
②**Digipeater information:** View the relay station (digipeater) information
③**RAW TEXT:** View the text of raw data

Tips

- For transmit messages, information on DIGI (First) and DIG (Last) will not be displayed ("-" will be displayed) as the digipeater information is not saved.
- When a 3rd Party Header Beacon (beacon from I-Gate and others) is received, the route information included in the text of the 3rd Party Header Beacon will be displayed instead of the information obtained from the AX.25 packet signal.

Transmitting APRS® beacons

Transmitting an APRS beacon manually

1 Press and hold the [**FUNC**] knob → Touch [**APRS BCN-TX**].

The APRS beacon will be transmitted.

On the APRS STATION LIST screen or the APRS STATION LIST details screen, a beacon may be sent manually by touch [**BCN-TX**].

Tip

When using the GPS function in APRS operations, be sure to check that [**MY POSITION**] is set to "**GPS**". A beacon cannot be transmitted if GPS data cannot be captured.

Transmitting an APRS beacon automatically

An APRS beacon can be sent automatically at a fixed interval.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS BEACON**] → [**BEACON SET**] → [**BEACON TYPE**].

2 Rotate the [**FUNC**] knob to select the [**AUTO**] or [**SMART**].

3 Touch [**AUTO BACON**] → [**INTERVAL TIME**].

4 Rotate the [**FUNC**] knob to select the transmission interval can be selected from the following times.

30sec / 1min / 2min / 3min / 5min / 10min / 15min / 20min / 30min / 60min

Factory default value: 5 min

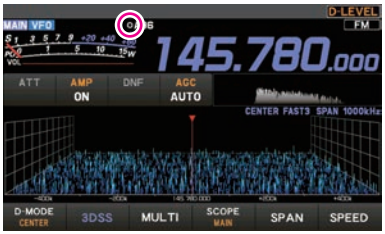
5 Press the [BACK] key several times to return to normal operation.

The beacon transmission setting is displayed with the following icon:

No display (OFF): Only when touch [**APRS BCN-TX**] or [**BCN-TX**] will the APRS beacon of your station be transmitted (with the default settings).

◉ **appears (AUTO):** Automatically transmit the APRS beacon of your own station at a 5-minute interval.

◯ **appears (SMART):** Transmit automatically with the SmartBeaconing™ function*.



*(Refer to "Setting the SmartBeaconing™" (page 17) on the details of the SmartBeaconing™ function.)

Tip

If the squelch is open when the specified time has passed to transmit a beacon, the beacon transmission is delayed. The beacon will be sent when the squelch is closed.

Setting the SmartBeaconing™

SmartBeaconing™ is a function that efficiently transmits an APRS beacon including your own station position, speed and direction of travel. The information is based on data from a GPS satellite receiver unit.

This device supports automatic beacon transmission using SmartBeaconing™.

If different timing settings are needed, the parameters can also be changed. In order to ensure that beacons can be transmitted in an appropriate manner, adjust the parameters and DIGI PATH settings of the SmartBeaconing™ function for efficient operation and reduced signal congestion.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS BEACON**] → [**BEACON SET.**].

2 Touch [**BEACON TYPE**], then rotate the [**FUNC**] knob to select "**SMART**".

3 Press the [BACK] key several times to return to normal operation.

*SmartBeaconing™ is a function provided by HamHUD Nichetronix.

Registering status text

A maximum of up to 60 characters can be registered for 5 types of status comment.
The following characters can be entered.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS BEACON**] → [**BEACON TEXT**].

2 Touch [**STATUS TEXT SELECT**], then rotate the [**FUNC**] knob to select "**TEXT 1**" to "**TEXT 5**".

3 Touch [**TX RATE**].

Select the rate from 1/1 (every time) to 1/8 (once in 8 times).

When select to 1/2(FREQ) to 1/8(FREQ), the status text is sent once every set number of times and the frequency information is sent each time.

4 Touch to select [**STATUS TEXT1**] to [**STATUS TEXT5**].

The screen for editing text will be displayed.

The text contents will be displayed if text was already entered.

5 Enter the text.

6 Touch [**ENT**].

7 Press the [BACK] key several times to return to normal operation.

Selecting a position comment

This selects the position comment (standard message) to be incorporated into your own station beacon.

1. Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS BEACON**] → [**BEACON SET**].
2. Touch [**POSITION COMMENT**]
3. Rotate the [**FUNC**] knob to select the position comment.
   Select the position comment from the following list.
   Off duty / En Route / In Service / Returning / Committed / Special / Priority / Custom 0 - Custom 6 / EMERGENCY!
   Factory setting value: Off duty
4. Press the [BACK] key several times to return to normal operation.

Caution

Never select “Emergency!” unless emergency aid is required e.g. accidents and disasters etc.
In the event an emergency message is sent out by mistake, select a position comment other than "Emergency!" and send another packet. Do not turn the radio OFF.

Setting the digipeater route

A digipeater is a station that relays packets such as beacons. The following 2 types of digipeater routes can be selected for use in the device.

Route	Number of relay steps	Address	Format
OFF	0	–	–
WIDE 1-1	1	Configured (settings cannot be changed)	New-Paradigm format*
WIDE 1-1, WIDE 2-1	2	Configured (settings cannot be changed)	New-Paradigm format*

When “WIDE 1-1, WIDE 2-1” is selected, the beacon is initially relayed to the digipeater station at the first location as specified in WIDE 1-1, and then it is relayed to the digipeater at the second location as specified in WIDE 2-1.

As of 2013, digipeater stations used in APRS are recommended to operate in the New-Paradigm format*.

* Refer to the following website for details on the New-N Paradigm method. http://aprs.org/fix14439.html (as of 2023).

1. Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SELECT**] → [**APRS SETTING**] → [**DIGI PATH**].
2. Touch [**PATH SELECT**].
   Select the DIGI PATH from OFF / WIDE1-1 / WIDE1-1,WIDE2-1
3. Press the [BACK] key several times to return to normal operation.

APRS® message screen and operating instructions

Description of the APRS MESSAGE LIST screen and operations

Text messages can be received separately from beacons in APRS.
A maximum of up to 100 received messages can be saved in a common list in the memory.

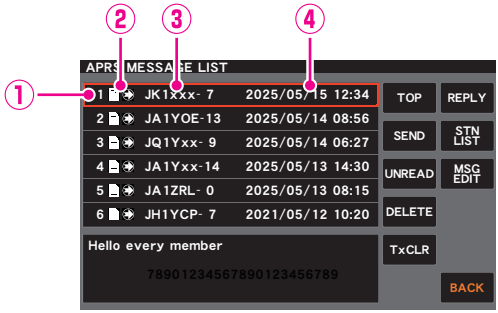
Checking messages

1 Press and hold the [**FUNC**] knob → [**APRS M.LIST**].
The MESSAGE LIST screen will be displayed.

2 Rotate the [**FUNC**] knob to select the message to be displayed.

3 Touch message.
The selected message will be displayed.

4 Touch [**BACK**].
Returns to the MESSAGE LIST screen.



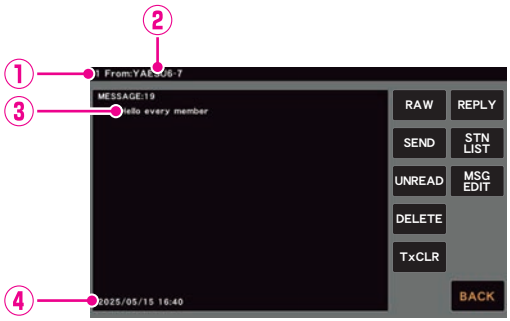
① **Number:** The number of the message received or transmitted will be displayed.
② **Receive:** One of the following icons is displayed during message reception.
Messages received (unread)
Messages received (read)
Messages transmitted (ACK received)
Messages transmitted (ACK not received)
Transmission message (transmission not complete)*
*(The figure is the remaining transmission count)
③ **Callsign:** The received or transmitted callsign will be displayed.
④ **Date / Time:** The message receive or transmit date (MM/DD) / time (HH:MM) will be displayed.

•Operation

Scroll the screen.	Rotate the **FUNC** knob
Move to the top of the list.	Touch [**TOP**]
Display the screen for editing the reply message.	Touch [**REPLY**]
The message will be transmitted by force.	Touch [**SEND**]
Move to the STATION LIST screen.	Touch [**STN LIST**]
Returning a read message to unread status.	Touch [**UNREAD**]
Display the message input screen.	Touch [**MSG EDIT**]
Delete the selected message from the list.	Touch [**DELETE**]
Cancelling a message resend.	Touch [**TxCLR**]

Description of the APRS MESSAGE LIST detail screen

From the APRS MESSAGE LIST screen, Rotate the [**FUNC**] knob to select the message whose details you want to see and press the [**FUNC**] knob to display the APRS MESSAGE LIST detail screen. The APRS MESSAGE LIST detail screen shows the details of the messages received in the APRS MESSAGE LIST screen.



① **Number:** The number of the message received or transmitted will be displayed.
② **Callsign:** The received/transmitted callsign will be displayed. Receive details will be displayed if "From:" is selected and transmit details will be displayed if "To:" is selected.
③ **Message:** Main text of message.
④ **Date / Time:** Date and time message is received.

•Operation

Select the message to display.	Rotate the **FUNC** knob
Display the packet data (raw data)	Touch [**RAW**]
Display the screen for editing the reply message.	Touch [**REPLY**]
The message will be transmitted by force.	Touch [**SEND**]
Move to the STATION LIST screen.	Touch [**STN LIST**]
Returning a read message to unread status.	Touch [**UNREAD**]
Display the message input screen.	Touch [**MSG EDIT**]
Delete the selected message from the list.	Touch [**DELETE**]
Cancelling a message resend.	Touch [**TxCLR**]

Receiving messages

When a message is received, a pop-up screen appears, together with a audio alarm, followed by the screen below.

Tip

An alarm will sound when a message ACK is received and the “AM>(callsign)” will be displayed on the screen.

Filter setting for messages received

The group filter for receiving messages and bulletin messages from specific groups (ALL, CQ, QST, YAESU etc.) can be set.

1 Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SELECT**] → [**APRS FILTER**] → [**MSG FIL.**].

2 Rotate the [**FUNC**] knob to select the group filter, then press the [**FUNC**] knob.

MASSAGE GROUP 1: ALL∗∗∗∗∗∗
MASSAGE GROUP 2: CQ∗∗∗∗∗∗∗
MASSAGE GROUP 3: QST∗∗∗∗∗∗
MASSAGE GROUP 4: YAESU∗∗∗∗
MASSAGE GROUP 5: – – – – – – – – –
MASSAGE GROUP 6: – – – – – – – – –
BULLETIN 1: BLN∗∗∗∗∗∗
BULLETIN 2: BLN∗
BULLETIN 3: BLN∗

3 Enter the text.

A maximum of up to 9 characters can be entered.

4 Touch [**ENT**].

5 Press the [**BACK**] key several times to return to normal operation.

Tips

- The receive audio (beacon or voice etc.) of RX Band when the APRS is operating, in can be muted by setting [APRS SETTING] → [GENERAL] → [APRS AF MUTE] is set to “ON” in the setup menu.
- The display method and time when an APRS beacon is received can be set by the [APRS SETTING] → [APRS FILTER] → [POPUP] setting in the setup menu.
- If the squelch is open when the specified time has passed to transmit a beacon, the beacon transmission is delayed. The beacon will be sent when the squelch is closed.

Deleting a message from the list

Unwanted messages on the APRS MESSAGE screen can also be deleted.

1 Press and hold the [**FUNC**] knob → [**APRS M.LIST**].
The MESSAGE LIST screen will be displayed.

2 Rotate the [**FUNC**] knob to select the message to be displayed.

3 Touch [**DELETE**].
A confirmation message "**DELETE?**" will appear in the display.

4 Touch [**OK**].
The message will be deleted.

Tip

A maximum of 100 messages can be displayed in the APRS screen, with the oldest messages being deleted automatically if the number exceeds 100. As a result, when a new message is received, messages that were not resent 5 times may be deleted.

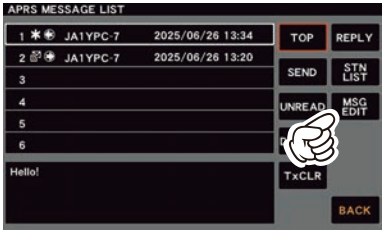
Transmitting APRS® messages

Text containing a maximum of 67 characters can be sent as an APRS message in this device.

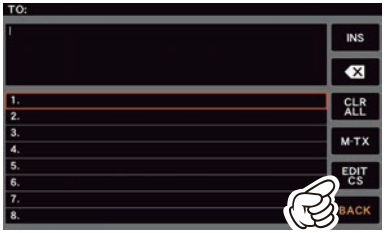
Creating and sending messages

1 Press and hold the [**FUNC**] knob → **[APRS M.LIST]**.
The APRS MESSAGE LIST screen will be displayed.

2 Touch [**MSG EDIT**].
The display will change to the APRS MESSAGE EDIT screen.



3 Touch [**EDIT CS**].
The display will change to the callsign input screen.

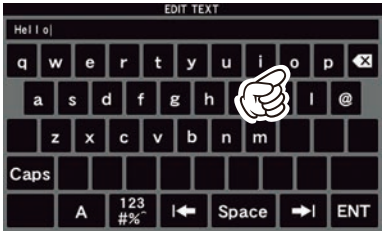


4 Input the callsign of the destination station.
A maximum of 6 digits and SSID can be entered for the callsign. No setting is required if SSID is not necessary.

5 Touch [**ENT**].
Return to the APRS MESSAGE EDIT screen.

6 Press the [**FUNC**] knob.
The screen for editing text will be displayed.

7 Enter the text.
A maximum of up to 67 characters can be entered.



8 Touch [**ENT**].
Return to the APRS MESSAGE EDIT screen.

9 Touch [**M-TX**].
The message will be sent and the display will return to the APRS MESSAGE LIST screen.

Tip

The data transmission delay time can be changed using the [APRS SETTING] → [APRS SELECT] → [APRS SETTING] → [APRS TX DELAY] setting in the setup menu.

Use fixed text to write a message

A character string registered in advance can be appended to a message text.
Refer to “Registering a standard message” for the registration method.

1. Follow Steps 1 - 5 in “Creating and sending messages” (page 23).
2. Rotate the [**SUB DIAL**] knob to select a standard message, then press the [**SUB DIAL**] knob to insert the standard message.

   Or touch to select a standard message (1 to 8).

   - The selected fixed text will be entered.
   - Repeat these steps to continue selecting standard messages.

Reference

Characters can also be added to or deleted from a selected standard message. Characters can also be added before or after a standard message.

3. Touch [**M-TX**].

   The message will be sent and the display will return to the APRS MESSAGE LIST screen.

Registering a standard message

8 standard messages containing a maximum of 16 characters each can be registered in this device.

1. Press and hold the [**FUNC**] knob → [**APRS SETTING**] → [**APRS SELECT**] → [**APRS SETTING**] → [**MSG TEMPLATE**].
2. Rotate the [**FUNC**] knob to select the message number to register and press the [**FUNC**] knob.

   A screen for editing the fixed text message will be displayed.
3. Entering a fixed text message.

   A maximum of up to 16 characters can be entered.
4. Touch [**ENT**].

   The fixed text message will be registered.
5. Press the [**BACK**] key several times to return to normal operation.

Using the reply function

You can also reply to a station that has sent an APRS message.

1 Rotate the [**FUNC**] knob to select the partner station.
Select the partner station to reply to in the APRS MESSAGE LIST screen.

2 Touch [**REPLY**].
The display will change to the APRS MESSAGE EDIT screen.

3 Press the [**FUNC**] knob.
The screen for editing text will be displayed.

4 Enter the characters.
Enter the message according to the procedure in “Creating and sending messages” (page 23) and “Use fixed text to write a message” (page 25).

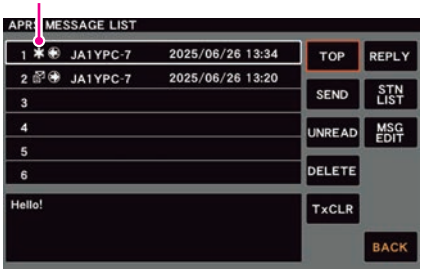
5 Touch [**M-TX**].
The message will be sent and the display will return to the APRS MESSAGE LIST screen.

Message receipt acknowledgment (ACK)

When a message is sent to a specific partner station, an ACK packet (receipt acknowledgment) will be returned to acknowledge receipt of the message by the partner station. When an ACK packet is not returned by the partner station for one minute, the same message will be resent.

The transmission process ends with an audio alarm to acknowledge receipt when an ACK packet is returned by the partner station.

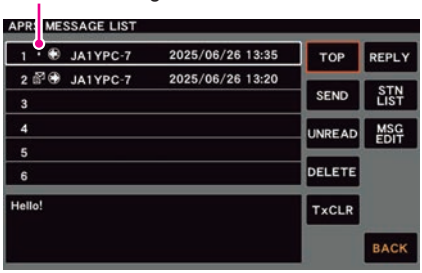
Show "✻" when ACK is received



(display when an acknowledgment is received)

The status will change to TX OUT if an ACK packet is not returned by the partner station even after resending the message 5 times.

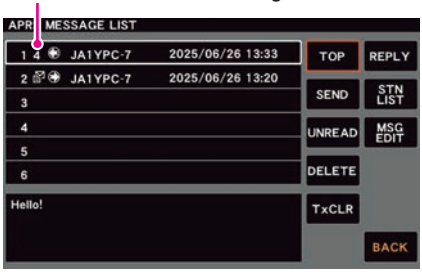
Show " • " during TX OUT



(display during TX OUT)

The remaining transmission count of the acknowledgment receipt will appear in the APRS MESSAGE LIST.

Show the number of remaining transmissions



(when the number of transmissions remaining is four)

Tip

A maximum of 100 messages can be displayed in the APRS screen, with the oldest messages being deleted automatically if the number exceeds 100. As a result, when a new message is received, messages that were not resent 5 times may be deleted.

APRS Setup menu List

Menu Function	Description	Selectable options (Bold letters: Default)
APRS SETTING		
GENERAL		
MODEM SELECT	Sets the APRS operating band.	**OFF** / AUTO / MAIN / SUB
MODEM TYPE	Sets the baud rate of the APRS.	1200bps / **9600bps**
APRS AF MUTE	Se audio mute for APRS band.	**OFF** / ON
APRS TX DELAY	Data transmit delay time setting.	100ms / 200ms / **300ms** / 400ms / 500ms / 750ms / 1000ms
CALLSIGN (APRS)	My call sign setting.	******-**
APRS DESTINATION	Model code display Non-editable.	APYX01 (FIX)
MSG TEMPLATE		
MESSAGE TEXT1 to 8	Standard message text input.	1 to 8
MY SYMBOL		
MY SYMBOL	My symbol setting.	**ICON1** / ICON2 / ICON3
ICON1 to ICON3	My symbol setting.	ICON 1: /> (Car) ICON 2: /R (REC.Vehicle) ICON 3: /- (House QTH (VHF))
USER	My symbol setting.	USER: YY (Yaesu Radios)
DIGI PATH		
PATH SELECT	Digital repeater route setting.	OFF / **WIDE1-1** / WIDE1-1, WIDE2-1
APRS BEACON		
BEACON SET		
BEACON TYPE	Beacon automatic transmit / Manual transmit switch.	**OFF** / AUTO / SMART
INFO AMBIGUITY	Transmit beacon information settings.	**OFF** / 1dig / 2dig / 3dig / 4dig
INFO SPEED/COURCE	Transmit beacon information settings.	OFF / **ON**
INFO ALTITUDE	Transmit beacon information settings.	OFF / **ON**
POSITION COMMENT	Set position comment.	**Off duty** / En Route / In Service / Returning / Committed / Special / Priority / Custom 0 to Custom 6 / EMERGENCY!
EMERGENCY BEACON	Enable/Disable the "EMERGENCY!" of the POSITION COMMENT.	**OFF** / ON
AUTO BEACON		
INTERVAL TIME	Beacon automatic transmission interval setting.	30sec / 1min / 2min / 3min / **5min** / 10min / 15min / 20min / 30min / 60min
PROPORTIONAL	Beacon transmission setting.	OFF / **ON**
DECAY		OFF / **ON**
AUTO LOW SPEED		1mph - **5mph** - 99mph
BEACON DELAY		5sec - **30sec** - 180sec

Menu Function	Description	Selectable options (Bold letters: Default)
SmartBeac.		
SMART LOW SPEED	Smart beaconing settings.	2mph - **5mph** - 30mph
SMART HIGH SPEED		3mph - **70mph** - 90mph
SMART SLOW RATE		1min - **30min** - 100min
SMART FAST RATE		10sec - **120sec** - 180sec
SMART TURN ANGLE		5degree - **28degree** - 90degree
SMART TURN SLOPE		1 - **26** - 255
SMART TURN TIME		5sec - **30sec** - 180sec
BEACON TEXT		
STATUS TEXT SELECT	Status text select.	**OFF** / TEXT1 to TEXT5
TX RATE	Set how frequent a status text is sent with a APRS beacon.	**1/1** - 1/8
BEACON FREQUENCY	Select the embedded information in the status text will be displayed.	**None** / FREQUENCY / FREQ & SQL SHIFT
STATUS TEXT1 to **5**	Entering status text.	–
APRS FILTER		
LIST SETTING		
STATION LIST SORT	Sort function settings.	TIME (fix)
STATION LIST		
Mic-E	Filter function settings.	OFF / **ON**
POSITION		OFF / **ON**
WEATHER		OFF / **ON**
OBJECT		OFF / **ON**
ITEM		OFF / **ON**
STATUS		OFF / **ON**
OTHER		**OFF** / ON
ALTNET		**OFF** / ON
POPUP		
BEACON	Beacons Pop-up display time setting.	OFF / 3sec / 5sec / **10sec** / HOLD
MESSAGE	Messages Pop-up display time setting.	OFF / 3sec / 5sec / **10sec** / HOLD
MY PACKET	Setting for a POPUP is displayed when a self transmitted beacon (relay wave) is received.	**OFF** / ON
RINGER		
TX BEACON	Set bell sound when beacons are received.	OFF / **ON**
RX BEACON		OFF / **ON**
TX MESSAGE		OFF / **ON**
RX MESSAGE		OFF / **ON**
MY PACKET		OFF / **ON**

Menu Function	Description	Selectable options (Bold letters: Default)
MSG FIL		
MESSAGE GROUP1	Group filter setting for received messages.	ALL＊＊＊＊＊＊
MESSAGE GROUP2		CQ＊＊＊＊＊＊＊
MESSAGE GROUP3		QST＊＊＊＊＊＊
MESSAGE GROUP4		YAESU＊＊＊＊
MESSAGE GROUP5		－－－－－－－－－
MESSAGE GROUP6		－－－－－－－－－
BULLETIN 1		BLN＊＊＊＊＊＊
BULLETIN 2		BLN＊
BULLETIN 3		BLN＊

APRS Setup menu function list

APRS SETTING

GENERAL

MODEM SELECT

APRS modem ON/OFF setting.
Setting Item: OFF / AUTO / MAIN / SUB
Default: OFF
Explanation:
OFF: Turn APRS function OFF.
AUTO: APRS operation will be fixed to the side shown with the small numbers.
MAIN: The APRS function operates on the MAIN-side.
SUB: The APRS function operates on the SUB-side.

MODEM TYPE

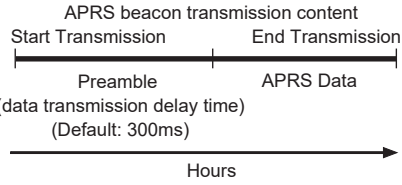
Set the baud rate of the APRS (internal modem)
Setting Item: 1200bps / 9600bps
Default: 9600bps
Explanation:
1200bps: APRS operations using AFSK 1200bps packets
9600bps: APRS operations using GMSK 9600bps packets

APRS MUTE

AF mute ON / OFF setting for APRS reception band when APRS function is ON.
Setting Item: ON / OFF
Default: OFF
Explanation: When the APRS function is ON, all received sounds in the band set as the APRS receive band is muted.

APRS TX DELAY

Set the data sending delay time.
Setting item: 100ms / 150ms / 200ms / 250ms / 300ms / 400ms / 500ms / 750ms / 1000ms
Default: 300 ms
Explanation:
The preamble (data transmission delay time), shown right, for when transmitting APRS data can be set.



CALLSIGN (APRS)

Specify the CALLSIGN of your station.

Explanation: Register the station CALLSIGN which is needed for APRS communication. APRS data cannot be transmitted if a CALLSIGN for the station is not entered. Be sure to register a CALLSIGN.

Register a CALLSIGN as shown below:

∗∗∗∗∗∗ – NN

∗: CALLSIGN (Up to 6 characters)

NN: Number (a number between 1 to 15, or no SSID.)

APRS DESTINATION

Model Code Display

Setting Item: [APYX01]

Explanation: Displays the model code. This setting cannot be changed.

MSG TEMPLATE

MESSAGE TEXT1 to MESSAGE TEXT8

Entering fixed text characters.

Explanation: 8 types of up to 16 character fixed text can be created, and copied to messages on the message edit screen.

MY SYMBOL

MY SYMBOL

Set the Station APRS transmit Symbol

Setting Item: ICON1 / ICON2 / ICON3 / USER

Default: ICON 1

ICON1

Set the Station Symbol of the ICON1

Setting Item: Symbol

Default: /> Car

ICON2

Set the Station Symbol of the ICON2

Setting Item: Symbol

Default: /R REC.Vechicle

ICON3

Set the Station Symbol of the ICON3

Setting Item: Symbol

Default: /- House QTH (VHF)

ICON4

Set the Station Symbol of the ICON4

Setting Item: Symbol

Default: YY Yaesu Radios

DIGI PATH

PATH SELECT

Setting the digipeater route.

Setting item: OFF / WIDE1-1 / WIDE1-1,WIDE2-1

Default: WIDE1-1

Explanation:

A station that relays packets, such as beacons, is called a digipeater.

Select a CALLSIGN or ALIAS of the digipeater you would like to use.

In this transceiver, [WIDE1-1] (setting for 1 relay station) and [WIDE1-1,WIDE2-1] (setting for 2 relay stations) is the default.

In [WIDE1-1,WIDE2-1], a transmission is relayed to the first digipeater station specified as WIDE1-1, then to the second digipeater station specified as WIDE2-1.

In the USA, digipeater stations used by APRS are customarily operated using *New-Paradigm.

The initial values set to this transceiver are premised for digipeater stations operating with New- Paradigm, because most digipeater stations support this method.

* For information on the New-Paradigm method, refer to the following website for details. http://aprs.org/fix14439.html

APRS BEACON

BEACON SET.

BEACON TYPE

Beacon transmission method setting

Setting Item: OFF / AUTO / SMART

Default: OFF

Explanation:

Set whether to send APRS beacons manually, or automatically on a regular basis.

OFF: Manually send the APRS beacon.

AUTO: Automatically sends APRS beacons every 5 minutes (Factory default).

SMART: Automatically send APRS beacons using the Smart Beaconing™ feature. See page 17 for details on setting the operation of the SmartBeaconing™ function.

INFO AMBIGUITY

Setting the transmit beacon information.

Setting item: OFF / 1 digit / 2 digits / 3 digits / 4 digits

Default: OFF

Explanation: This function is for masking lower denominations of the station position (longitude, latitude) to ambiguate the station position.
Setting this function to [OFF] disables ambiguation and transmits the precise station position information.

OFF	1 digit	2 digits	3 digits	4 digits
35°38.17'	35°38.1□	35°38.□□	35°3□.□□	35°□□.□□
139°42.33'	139°42.3□	139°42.□□	139°4□.□□	139°□□.□□

INFO SPEED/COURSE

Setting the transmit beacon information.

Setting item: ON / OFF

Default: OFF

Explanation: If function is set to [ON], speed and directional information is transmitted.
If this function is set to [OFF], speed and directional information is not be transmitted.

INFO ALTITUDE

Setting the transmit beacon information.

Setting item: ON / OFF

Default: ON

Explanation: If this function is set to [ON], altitude information is transmitted.
If this function is set to [OFF], altitude information is not transmitted.

POSITION COMMENT

Set up the position comment function.

Setting Item: Off Duty / En Route / In Service / Returning / Committed / Special / Priority/ Custom 0 / Custom 1 / Custom 2 / Custom 3 / Custom 4 / Custom 5 / Custom 6 / Emergency!

Default: Off Duty

Explanation: Select the position comment (standard message) incorporate into the station beacons.

⚠ **Unless there is a serious emergency, such as an accident or natural disaster, do not select [EMERGENCY!].**

AUTO BEACON

INTERVAL TIME

Beacon transmission setting.

Setting Item: 30sec / 1min / 2min / 3min / 5min / 10min / 15min / 20min / 30min / 60min

Default: 5min

Explanation: Set the method the APRS BEACON is automatically transmitted.
Setting the time interval for automatically sending an APRS beacon.

PROPORTIONAL

Beacon transmission setting.

Setting Item: OFF / ON

Default: ON

Explanation:

OFF: The transmission will be in accordance with the address selected under [**DIGI PATH**] in the set-up menu.

ON: The digipeater address set in [**DIGI PATH**] on the setup menu is automatically changed (thinning out) when sending. When this function is set to ON, packet update will be carried out in detail for close distances while relay steps are spread out to reduce frequency congestion for long distances.

DECAY

Beacon transmission setting.

Setting Item: OFF / ON

Default: ON

Explanation:

OFF: The APRS beacon transmission time interval is not extended.

ON: When DECAY is set to ON and your station enters into the stop mode, the APRS beacon transmission time interval will gradually be extended (to a maximum of 30 minutes).

AUTO LOW SPEED

Beacon transmission setting.

Setting Item: 1mph - 99mph

Default: 5mph

Explanation: Set the cut-off value for determining when the station has stopped and “DECAY” is set to ON. When the speed is lower than the value set, the station will be deemed to have stopped.

BEACON DELAY

Beacon transmission setting.

Setting Item: 5sec - 180sec

Default: 30sec

Explanation: Set the timer limiting automatic transmissions from the last beacon transmission to a certain period of time.

This prevents the beacon from being sent out twice continuously within a short period of time when “DECAY” is set to ON in the stationary state, and movement is detected immediately after the beacon is automatically transmitted. The beacon will not be automatically transmitted within this period of time. Only when the set time has passed will the beacon be automatically sent out again.

SmartBeac.

SMART LOW SPEED

Settings for SmartBeaconing™

Setting Item: 2mph to 30mph

Default: 5mph

Explanation:

If speed is lower than setting, BEACONs are transmitted in time intervals set in [SLOW RATE].

SMART HIGH SPEED

Settings for SmartBeaconing™

Setting Item: 3mph to 90mph

Default: 70mph

Explanation:

If speed is higher than setting, BEACONs are transmitted in time intervals set in [FAST RATE].

SMART SLOW RATE

Settings for SmartBeaconing™

Setting Item: 1min to 100min

Default: 30min

Explanation:

BEACON transmission time interval when speed decreases below the [LOW SPEED] setting.

SMART FAST RATE

Settings for SmartBeaconing™

Setting Item: 10sec to 180sec

Default: 120sec

Explanation:

BEACON transmission time interval when speed increases above the [HIGH SPEED] setting.

SMART TURN ANGLE

Settings for SmartBeaconing™
Setting Item: 5degree - 90degree
Default: 28degree
Explanation:
Set the minimal value of changes in angle when the direction of movement changes.

SMART TURN SLOPE

Settings for SmartBeaconing™
Setting Item: 1 - 255
Default: 26
Explanation:
Set the coefficient for automatically altering the angle that judges changes in the direction of movement according to speed.
The higher the coefficient value setting, the greater the judgment angle is when moving at slow speeds.
1 to 255 (X10)°/SPEED
(If the real number for units of rotating tilt is set to 1/10, this is the same as the unit setting used in HamHUD Nichetronix, LLC series transceivers.)

SMART TURN TIME

Settings for SmartBeaconing™
Setting Item: 5sec to 180sec
Default: 30sec
Explanation:
Set the time limit until the next BEACON can be transmitted, after a BEACON is transmitted upon detection of a change in time (Variable Rate Beaconing) or direction (Corner Pegging).

BEACON TEXT

STATUS TEXT SELECT

Select the status text to send when transmitting a beacon.
Setting Item: OFF / TEXT1 / TEXT2 / TEXT3 / TEXT4 / TEXT5
Default: OFF
Explanation: Selecting OFF transmits the beacon without a status text.

TX RATE

Set how frequent a status text is sent with a APRS beacon.
Setting Item: 1/1 to 1/8
Default: 1/1
Explanation: Select from 1/1: every time, 1/2: 2 once every 2 transmissions, to up to 1/8: once every 8 transmissions, a status text is sent with a beacon.

BEACON FREQUENCY

Select the embedded information in the status text will be displayed.

Setting Item: None / FREQUENCY / FREQ & SQL & SHIFT

Default: None

Explanation:

NONE: No data will be embedded in the status text.

FREQUENCY: The frequency on the band opposite from the APRS operating band will be automatically embedded in the status text.

FREQ & SQL & SHIFT: The band frequency on the band opposite from the APRS operating band and information such as the tone (squelch), shift, etc. will be automatically embedded in the status text.

STATUS TEXT1 to STATUS TEXT5

Entering status text.

Setting Item: TEXT1: (Not entered)
TEXT2: (Not entered)
TEXT3: (Not entered)
TEXT4: (Not entered)
TEXT5: (Not entered)
* Up to 60 characters can be entered for status text into TEXT1 to TEXT5.

APRS FILTER

LIST SETTING

STATION LIST SORT

Sort function setting.

Setting Item: TIME (fix)

STATION LIST

Mic-E

Filter function setting

Setting Item: OFF / ON

Default: ON

Explanation: Displays the obtained MIC-Encoder beacons.

ON: Obtains beacons

OFF: Does not obtain beacons

POSITION

Filter function setting

Setting Item: OFF / ON

Default: ON

Explanation: Displays the obtained Position of beacons.

ON: Obtains beacons

OFF: Does not obtain beacons

WEATHER

Filter function setting
Setting Item: OFF / ON
Default: ON
Explanation: Displays the obtained Weather beacons.
ON: Obtains beacons
OFF: Does not obtain beacons

OBJECT

Filter function setting
Setting Item: OFF / ON
Default: ON
Explanation: Displays the obtained Object of beacons.
ON: Obtains beacons
OFF: Does not obtain beacons

ITEM

Filter function setting
Setting Item: OFF / ON
Default: ON
Explanation: Displays the obtained item of beacons.
ON: Obtains beacons
OFF: Does not obtain beacons

STATUS

Filter function setting
Setting Item: OFF / ON
Default: ON
Explanation: Displays the obtained Status of beacons.
ON: Obtains beacons
OFF: Does not obtain beacons

OTHER

Filter function setting
Setting Item: OFF / ON
Default: OFF
Explanation: Displays the obtained packets other than those used in APRS.
ON: Obtains beacons
OFF: Does not obtain beacons

ALTNET

Filter function setting
Setting Item: OFF / ON
Default: OFF
Explanation: Displays the obtained packets specified by Destination Address in Alternate Nets.
ON: Obtains beacons
OFF: Does not obtain beacons

POPUP

BEACON

APRS reception pop-up setting

Setting Item: OFF / 3sec / 5sec / 10sec / HOLD

Default: 10sec

Explanation: Setting for the time a POPUP is displayed when a beacon is received.

OFF	The display will not change even if a beacon or message is received.
3 sec, 5 sec, 10 sec	Select the pop-up screen (compass screen or message screen) time.
HOLD	The pop-up screen (compass screen or message screen) will continue to be displayed until you perform a key press.

MESSAGE

APRS reception pop-up setting

Setting Item: OFF / 3sec / 5sec / 10sec / HOLD

Default: 10sec

Explanation: Setting for the time a POPUP is displayed when a new message is received.

OFF	The display will not change even if a beacon or message is received.
3 sec, 5 sec, 10 sec	Select the pop-up screen (compass screen or message screen) time.
HOLD	The pop-up screen (compass screen or message screen) will continue to be displayed until you perform a key press.

MY PACKET

APRS reception pop-up setting

Setting Item: OFF / ON

Default: OFF

Explanation: Setting for the time a POPUP is displayed when a self transmitted beacon (relay wave) is received.

RINGER

TX BEACON

Setting the bell sound when a beacon is transmitted.

Setting Item: OFF / ON

Default: ON

Explanation: This sets the bell ring when your own station is sending a beacon. When set to ON, a bell will ring prior to the transmission.

RX BEACON

Setting the bell sound when a beacon is received.

Setting Item: OFF / ON

Default: ON

Explanation: This sets the bell ring when a beacon is received from another station. When set to ON, a bell will ring when a beacon is received.

TX MESSAGE

Setting the bell sound when a message is transmitted.

Setting Item: OFF / ON

Default: ON

Explanation: This sets the bell ring when your own station is sending a message. When set to ON, a bell will ring prior to the transmission.

RX MESSAGE

Setting the bell sound when a message is received.

Setting Item: OFF / ON

Default: ON

Explanation: This sets the bell ring when a message is received from another station. When set to ON, a bell will ring when a message is received.

MY PACKET

Setting the bell sound when a beacon is received.

Setting Item: OFF / ON

Default: ON

Explanation: This sets the bell ring when your own station transmit beacon (relayed signal) is received.

MSG FIL.

MESSAGE GROUP1

Group filter setting for APRS MSG GROUP received messages.

Default: ALL＊＊＊＊＊＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)
(ALL is selected in default settings).
"＊": Acts as a wild card matching any character received.

MESSAGE GROUP2

Group filter setting for APRS MSG GROUP received messages.

Default: CQ＊＊＊＊＊＊＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)
(CQ is selected in default settings).
"＊": Acts as a wild card matching any character received.

MESSAGE GROUP3

Group filter setting for APRS MSG GROUP received messages.

Default: QST＊＊＊＊＊＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)
(QST is selected in default settings).
"＊": Acts as a wild card matching any character received.

MESSAGE GROUP4

Group filter setting for APRS MSG GROUP received messages.

Default: YAESU＊＊＊＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)
(YAESU is selected in default settings).
"＊": Acts as a wild card matching any character received.

MESSAGE GROUP5

Group filter setting for APRS MSG GROUP received messages.

Default: – – – – – – – – –

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)

MESSAGE GROUP6

Group filter setting for APRS MSG GROUP received messages.

Default: – – – – – – – – –

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)

BULLETIN 1

Group filter setting for APRS MSG GROUP received messages.

Default: BLN＊＊＊＊＊＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)

BULLETIN 2

Group filter setting for APRS MSG GROUP received messages.

Default: BLN＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)

BULLETIN 3

Group filter setting for APRS MSG GROUP received messages.

Default: BLN＊

Explanation: A filter can be set to receive messages with a specified group code (ALL or CQ)

YAESU

Radio for Professionals

YAESU MUSEN CO., LTD.
Omori Bellport Building D-3F
6-26-3 Minami-Oi, Shinagawa-ku, Tokyo, 140-0013, Japan
YAESU USA
6125 Phyllis Drive, Cypress, CA 90630, U.S.A.
YAESU UK
Unit 4, Concorde Park, Concorde Way, Segensworth North,
Fareham, Hampshire PO15 5FG, United Kingdom

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