YAESU

Radio for Professionals

C4FM/FM 144/430MHz
DUAL BAND DIGITAL TRANSCEIVER

FTM-310DR
FTM-310DE

Instruction Manual
(GM Edition)

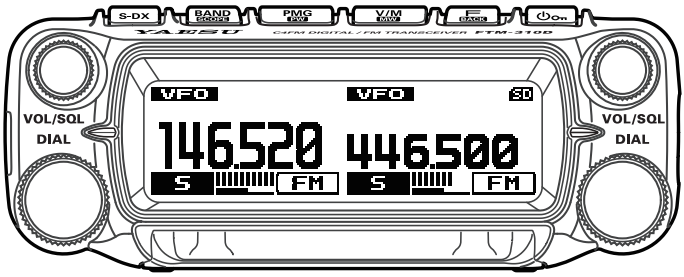


Table of Contents

What is the GM Function? 2
GM Operation 3
Display the position of the member station on the compass screen 3
Checking Received Messages 4
Sending massages 5
Creating and sending a new message 5
Using Standard Messages 6
Registering a standard message 6
Replying to the Sender of the Checked Message Data 7
Forwarding the Checked Message Data 7
GM Set Mode List 8
GM Set Mode Function List 8
61 DP-ID LIST 8
62 RANGE RINGER 8
63 RADIO ID CHECK 8
64 LOG LIST 8

What is the GM Function?

The GM (Group Monitor) function automatically monitors on the same frequency for any other stations with the GM function in operation, or stations operating in DN mode, within communication range. The GM function then displays the acquired direction and distance information for each detected call sign on the screen.

If the DG-ID number is other than “00”, the GM function will check for partner stations set to the same DG-ID number, with the GM function turned ON, that are within communication range.

In addition to knowing who is in the service area, the APL (Automatic Position Locat ing) screen indicates the positions of the group members, centered on your own station (up to four are simultaneously displayed). The direction and progress of each station is displayed, and you can check each other's position and distance.

You can also use GM functions to send data such as messages with your friends.

- When the GM function is activated, the operating band is automatically switched to the Main band, and the communication mode is switched to the C4FM digital (DN) mode.
- To use the GM function, all of the members must operate on the same frequency.
- Note that when the receive DG-ID number of your transceiver is set to a DG-ID number other than “00”, received signals that do not have the same DG-ID number may not be heard.

Insert a commercially available micro-SD card into this unit to send and receive messages.

Usable microSD Memory Cards

This transceiver only supports the following capacity of microSD and microSDHD memory cards.

• 2GB • 4GB • 8GB • 16GB • 32GB

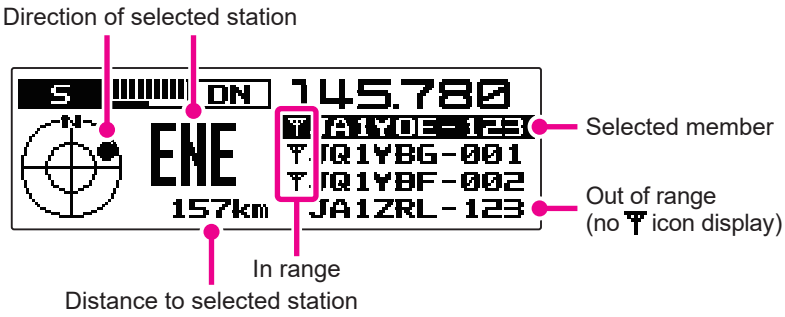
Not all microSD and microSDHC cards sold commercially are guaranteed to work with this product. In addition, microSDXC memory cards are not supported.

GM Operation

1. Tune to the frequency used by the group that you would like to communicate with.
   - If you only want to check your group location information, set the send and receive DG-ID numbers to the same numbers except “00” at all the partner stations.
   - The frequency cannot be changed while the GM function is operating.
2. Press the [F BACK] key.
3. Rotate the Right **DIAL** knob to select [**GM**] then press the Right **DIAL** knob.
   - The callsign of stations (up to 24) operating in the DN mode and those with their GM function in operation, that are within communications range, will be displayed.
   - Members who are currently available for communication will have a “T” icon displayed to the left of their callsign; this icon will disappear when a member goes out of range (see illustration below).
   - You can communicate in DN mode of C4FM digital by pressing the PTT switch.

Display the position of the member station on the compass screen

While the GM function is active, rotate the Right **DIAL** knob to select the contact whose location information you want to display.
The direction and distance to the selected station will be displayed.



- Cannot update the location information of the partner stations outside of communication range.
- If your station or your partner stations do not set the location information manually or capture it from the GPS satellite signals, the compass display is not available.
- GPS location information may have an error of several hundred meters depending on the surrounding environment and so on.
- This function is a simple function using GPS satellite data. Use this as a guide for the position of your own station or partner station.

Checking Received Messages

Use the GM function to check the messages on the LOG list.

When using a GM function, a beep sounds when a new message is received.

1. A beep sounds when a new message is received.
2. Press the Left **DIAL** knob, then rotate the Right **DIAL** knob to select [**MESSAGE**], then press the Right **DIAL** knob.

   Display the LOG MESSAGE list.
   The icons on the left side of the LOG list indicate the following:

GM➔✉	Message received (unread)
GM➔✉	Message received (read)
GM➔✉	Message sent
GM✖✉	Message failed to send

3. Rotate the Right **DIAL** knob to select to the message to be displayed, then press the Right **DIAL** knob.
   - The selected message will be displayed.
   - Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**FWD**], then press the Left **DIAL** knob to forward the checked message data. Refer to “Forwarding the Checked Message Data (page 7).
   - Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**REPLY**], then press the Left **DIAL** knob to reply to the sender of the downloaded message data. Refer to “Replying to the Sender of the Checked Message Data” (page 7).
   - Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**DEL**], then press the Left **DIAL** knob to display “**DELETE?**”. Rotate the Right **DIAL** knob to select [**OK**], then press the Right **DIAL** knob to delete the information.
4. Press the (CLEAR) key three times.
   Returns to the previously viewed screen.

Sending massages

There are 3 ways to send messages or images using the GM function:

(1) Creating and sending a new message
(2) Replying to the sender of the checked message data
(3) Forwarding the checked message data

Creating and sending a new message

Create and send a new message:

1. Press the Left **DIAL** knob, then rotate the Right **DIAL** knob to select [**MESSAGE**], then press the Right **DIAL** knob.
   Displays the LOG MESSAGE list.
2. Rotate the Right **DIAL** knob to select [**NEW**], then press the Right **DIAL** knob.

3. Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**EDIT**], then press the Left **DIAL** knob.
   Displays the message entry screen.
4. Refer to “Text input screen” in the FTM-310DR/DE Operating Manual to enter a message.
   - Rotate the Right **DIAL** knob to select [**#%^**], then press the Right **DIAL** knob, then rotate the Right **DIAL** knob to select [**MTXT**] to easily input a message using a standard form.
   - In the message input screen, one line is displayed for every 20 characters. Rotate the Left **DIAL** knob to move the cursor and display other lines.
5. When input is complete, press and hold the Right **DIAL** knob.
   The entire message is displayed.
6. Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**SEND**], then press the Left **DIAL** knob.
   - To cancel transmission, press the [BACK] key.
   - To save the entered message as a standard message, press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**SAVE**], then press the Left **DIAL** knob (page 6).
7. Rotate the Right **DIAL** knob to select [**ALL**], then press the Right **DIAL** knob.
   - To send the message to a specific member that is within communication range, select the member callsign.

- Messages cannot be sent to members outside of communication range.
- The address designation “to:” is merely for displaying “ALL” or the call sign of a specific station. In other words, even if you specify a call sign for “to:” to send a message, other stations operating GM on the same frequency can also read the message if they are within the communication range.

Using Standard Messages

The following 19 standard messages have been saved in the radio's memory as default to help save time and effort in text input.

QRM	QSY	Good night	Pick me up
QRP	Good morning	Send messages	Thank you
QRT	Good job	Send pictures	OK
QRX	Good day	on my way	urgent
QRZ	Good evening	wait for you	-

1. Follow steps 1 to 3 in “Creating and sending a new message” on page 5 to display the message entry screen.
2. Rotate the Right **DIAL** knob to select [**#%^**], then press the Right **DIAL** knob.
3. Rotate the Right **DIAL** knob to select [**MTXT**], then press the Right **DIAL** knob.
   - Displays the standard message list.
   - For “1” to “10”, you can register a message comprised of up to 80 letters.

4. Rotate the Right **DIAL** to select the standard message you want to use.
5. Press the Right **DIAL** knob.
6. Press and hold the Right **DIAL** knob.
   The entire message is displayed.
   To add letters to the message, input letters following steps 6 in “Creating and sending a new message” on page 5.

Registering a standard message

Up to 10 texts containing a maximum of 80 characters each can be registered as standard messages.
Registered texts can be selected and used like the 19 standard messages that have been saved as default.

1. Follow steps 1 to 3 in “Creating and sending a new message” on page 5 to display the message entry screen.
2. Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**SAVE**], then press the Left **DIAL** knob.
   The standard message list is displayed.
3. Rotate the Right **DIAL** knob to select the number (1 to 10) where you want to register the standard message.
4. Press the Left **DIAL** knob.
   - Registers the text as a standard message and displays the message entry screen.
   - If you register a new message to a number where a message is already registered, the old message is overwritten.
   - To cancel registration, press the (ESC) key.

Replying to the Sender of the Checked Message Data

After checking the message or image data, you may reply to the sender.

1. Select the information (MESSAGE) to review according to steps 1 to 3 of “Checking Received Messages” (page 4).
   Displays the selected data.
2. Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**REPLY**], then press the Left **DIAL** knob.
   The call sign of the station that sent MESSAGE to the destination is set automatically.
3. Rotate the Left **DIAL** knob to select [**EDIT**], then press the Left **DIAL** knob.
   Displays the message entry screen.
4. Follow steps 1 to 5 in “Creating and sending a new message” on page 5 to display the message entry screen.
   Displays the entire message.
5. Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**SEND**], then press the Left **DIAL** knob.
   Sends the reply message to the sender of the MESSAGE data.

Forwarding the Checked Message Data

After reviewing the message data, you may forward the data to other members.

1. Select the information (MESSAGE) to check according to steps 1 to 3 of “Checking Received Messages” (page 4).
   Displays the selected data.
2. Press the Left **DIAL** knob, then rotate the Left **DIAL** knob to select [**FWD**], then press the Left **DIAL** knob.
3. Rotate the Right **DIAL** knob to select [**ALL**], the press the Right **DIAL** knob.
   Messages will be transferred.
   - To send the message to a specific member that is within communication range, touch the member callsign.

- Messages cannot be sent to members outside of communication range.
- The address designation “to:” is merely for displaying “ALL” or the call sign of a specific station. In other words, even if you specify a call sign for “to:” to send a message, other stations operating GM on the same frequency can also read the message if they are within the communication range.

GM Set Mode List

Set mode item No. /item	Descriptions	Selectable Items (Bold letters: Default)
61 DP-ID LIST	Displays the DP-ID list screen	-
62 RANGE RINGER	Bell sound setting when checking for stations within sphere of communications	**OFF**/ON
63 RADIO ID	Transceiver specific number (ID) appears.	(Cannot be edited)
64 LOG LIST	Display a list of recorded audio files, received messages and images.	-

GM Set Mode Function List

61 DP-ID LIST

Display of the DP-ID list screen

Explanation: Every C4FM digital transmit communication contains the individual ID information (Radio ID) of each transceiver. The DP-ID function uses this individual ID information.

When communicating with another transceiver, if the DP-IDs of the stations are registered in both transceivers, they can communicate even though the DG-ID numbers are different.

For details, refer to the FTM-310DR/DE Advance Manual.

62 RANGE RINGER

Explanation: Activates/deactivates the alert sound when detecting stations within communication range. Select “ON” to activate the alert sound when detecting any stations within communication range.

63 RADIO ID CHECK

Display of RADIO ID

Explanation: In the GM function, each transceiver transmits its own ID along with the call sign.

RADIO ID is a 5-digit code consisting of alphanumeric characters that are written into the transceiver during factory production.

The RADIO ID cannot be edited.

64 LOG LIST

Display a list of recorded voices, received messages and images.

Explanation: Displays the list of recorded audio, messages and images.

VOICE: Display the list of recorded audio files.

MESSAGE: Displays the list of messages sent and received.

PICT: Displays the list of images.

Select a file with the Right **DIAL** knob and then press the Right **DIAL** knob to display it.

YAESU

Radio for Professionals

Copyright 2025
YAESU MUSEN CO., LTD.
All rights reserved.

No portion of this manual may be
reproduced without the permission of
YAESU MUSEN CO., LTD.

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

2509-A