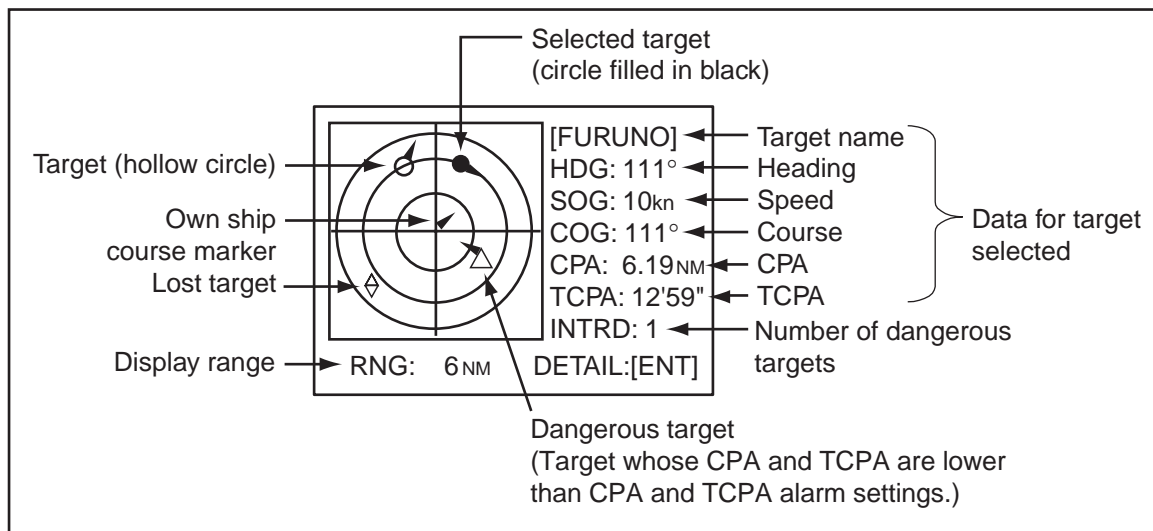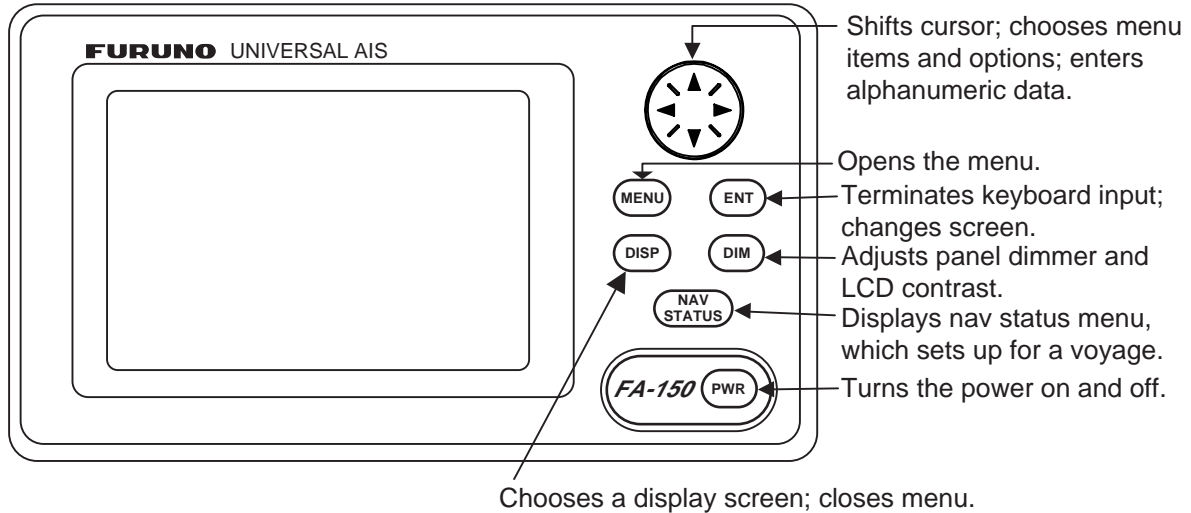# FURUNO

FA-150　UAIS TRANSPONDER
Operator's Guide

The purpose of this Operator's Guide is to provide basic operating procedures for this equipment. For more detailed information see the Operator's Manual.
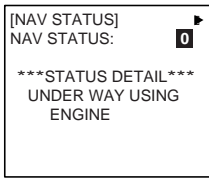
FURUNO UNIVERSAL AIS

Shifts cursor; chooses menu items and options; enters alphanumeric data.

MENU — Opens the menu.

ENT — Terminates keyboard input; changes screen.

DISP

DIM — Adjusts panel dimmer and LCD contrast.

NAV STATUS — Displays nav status menu, which sets up for a voyage.

FA-150 PWR — Turns the power on and off.

Chooses a display screen; closes menu.

Selected target (circle filled in black)

Target (hollow circle)

Own ship course marker

Lost target

Display range

[FURUNO] — Target name
HDG: 111° — Heading
SOG: 10kn — Speed
COG: 111° — Course
CPA: 6.19NM — CPA
TCPA: 12'59" — TCPA
INTRD: 1 — Number of dangerous targets

Data for target selected

RNG:　6 NM　　DETAIL:[ENT]

Dangerous target
(Target whose CPA and TCPA are lower than CPA and TCPA alarm settings.)

Plotter display

FURUNO ELECTRIC CO., LTD.

SOLAS MODE OPERATIONS

How to set up for a voyage

1. Press the **NAV STATUS** key.

```
[NAV STATUS]        ►
NAV STATUS:     0

***STATUS DETAIL***
UNDER WAY USING
ENGINE
```
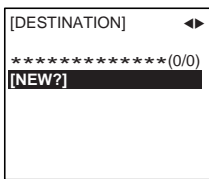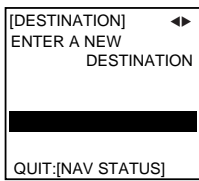
2. If your navigation status is different from that shown, do a) and b) below. If it is the same as shown, go to step 3.
   a) Press the **ENT** key.
   b) Press ▲ or ▼ to choose appropriate status and then press the **ENT** key.
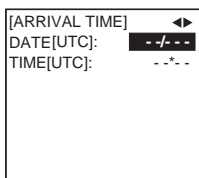3. Press ► to show page 2 of the NAV STATUS menu.

```
[DESTINATION]       ◄►

**************(0/0)
[NEW?]
```

4. NEW is selected; press the **ENT** key.

```
[DESTINATION]       ◄►
ENTER A NEW
         DESTINATION


QUIT:[NAV STATUS]
```
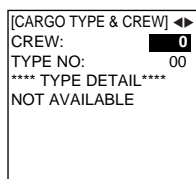
5. Press the **ENT** key. Use the **CursorPad** to enter destination and then press the **ENT** key.
6. Press ► to show page 3 of the NAV STATUS menu.

```
[ARRIVAL TIME]      ◄►
DATE[UTC]:       - -/- -
TIME[UTC]:       - -:- -
```

7. DATE is selected; press the **ENT** key.
8. Use the **CursorPad** to enter the date of arrival and then press the **ENT** key.
9. TIME is selected; press the **ENT** key.
10. Use the **CursorPad** to enter the estimated time of arrival and then press the **ENT** key. Use 24-hour notation.
11. Press ► to show page 4 of the NAV STATUS menu.

```
[CARGO TYPE & CREW] ◄►
CREW:            0
TYPE NO:         00
**** TYPE DETAIL****
NOT AVAILABLE
```

12. CREW is selected; press the **ENT** key.
13. Use the **CursorPad** to enter number of crew and then press the **ENT** key.
14. TYPE NO. is selected; press the **ENT** key.

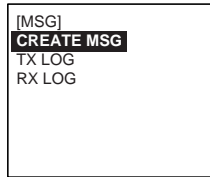15. Use the **CursorPad** to choose type of vessel and then press the **ENT** key.
16. Press ► to show page 5 of the NAV STATUS menu.

```
[DRAUGHT]           ◄
DRAUGHT:       0.0  m
```
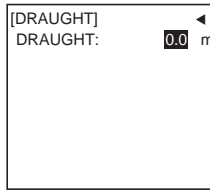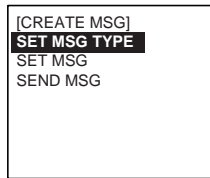
17. Press the **ENT** key.
18. Use the **CursorPad** to enter ship's draught, and then press the **ENT** key.
19. Press the **DISP** key to close the menu.
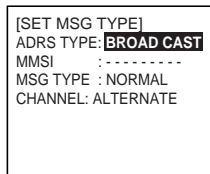
How to send a message

1. Press the **MENU** key.
2. Use ▼ or ▲ to choose MSG and then press the **ENT** key.

```
[MSG]
CREATE MSG
TX LOG
RX LOG
```

3. CREATE MSG is selected; press the **ENT** key.

```
[CREATE MSG]
SET MSG TYPE
SET MSG
SEND MSG
```

4. SET MSG TYPE is selected; press the **ENT** key.

```
[SET MSG TYPE]
ADRS TYPE: BROAD CAST
MMSI      : - - - - - - - - -
MSG TYPE  : NORMAL
CHANNEL: ALTERNATE
```

5. ADRS TYPE is selected; press the **ENT** key.

```
BROAD CAST
ADRS CAST
```

6. Choose ADRS CAST or BROAD CAST as appropriate. Press the **ENT** key.
7. For BROAD CAST, go to step 8. For ADRS CAST, "MMSI" is selected; press the **ENT** key, use the **CursorPad** to enter MMSI number of receiving vessel and then press the **ENT** key.
8. MSG TYPE is chosen; press the **ENT** key.

```
SAFETY
NORMAL
```

9. Choose message type: NORMAL (message other than safety) or SAFETY (important navigational or meteorological warning). Press the **ENT** key.
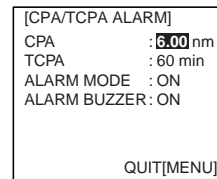
10. CHANNEL is chosen; press the **ENT** key.

```
ALTERNATE
BOTH A & B
A
B
```

11. Choose which channel to transmit your message over.
12. Press the **ENT** key.
13. Press the **MENU** key to return to the CREATE MSG sub-menu.
14. Choose SET MSG and press the **ENT** key.
15. Use the **CursorPad** to enter your message. Use ▼ or ▲ to choose character; ◄ or ► to shift the cursor.
16. Press the **ENT** key to return to the CREATE MSG sub-menu.
17. Choose SEND MSG; press the **ENT** key to send your message.
18. Press ◄ to choose YES; press the **ENT** key.

How to set CPA/TCPA

1. Press the **MENU** key.
2. Use ▲ or ▼ to choose USER SETTINGS and then press the **ENT** key.
3. Use ▲ or ▼ to choose CPA/TCPA ALARM and then press the **ENT** key.

```
[CPA/TCPA ALARM]
CPA          : 6.00 nm
TCPA         : 60 min
ALARM MODE   : ON
ALARM BUZZER : ON


         QUIT[MENU]
```
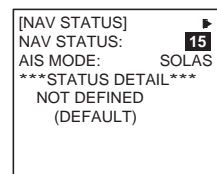
4. CPA is selected; press the **ENT** key.
5. Use the **CursorPad** to enter CPA and then press the **ENT** key.
6. TCPA is selected; press the **ENT** key.
7. Use the **CursorPad** to enter TCPA and then press the **ENT** key.
8. ALARM MODE is selected; press the **ENT** key.
9. Choose ON to enable the CPA/TCPA alarm feature; OFF to disable it. Press the **ENT** key.
10. ALARM BUZZER is selected; press the **ENT** key.
11. Choose ON to enable the CPA/TCPA audio alarm, or OFF to disable it. Press the **ENT** key.
12. Press the **DISP** key to close the menu

INLAND AIS OPERATIONS

How to select INLAND AIS mode

1. Press the **NAV STATUS** key.

```
[NAV STATUS]        ►
NAV STATUS:     15
AIS MODE:       SOLAS
***STATUS DETAIL***
NOT DEFINED
  (DEFAULT)
```
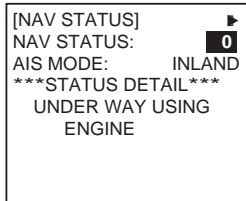
2. Push ▼ to select AIS MODE then press the **ENT** key.

```
SOLAS
INLAND
```

3. Select INLAND then press the **ENT** key.

How to enter voyage-related data

1. Press the **NAV STATUS** key.

```
[NAV STATUS]          ►
NAV STATUS:          0
AIS MODE:       INLAND
***STATUS DETAIL***
   UNDER WAY USING
        ENGINE
```

2. Press ► to show the DESTINATION sub-menu.

```
[DESTINATION]        ◄►

*************(0/0)
[NEW?]
```

3. NEW is selected; press the **ENT** key.

```
[DESTINATION]        ◄►
ENTER A NEW
          DESTINATION



QUIT:[NAV STATUS]
```
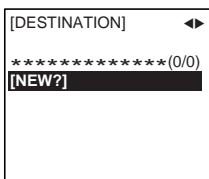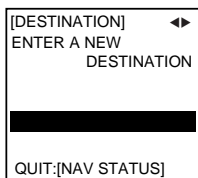
4. Press the **ENT** key. Enter destination (20 characters max.) then press the **ENT** key.
5. Press ► to show the ARRIVAL TIME sub-menu.

```
[ARRIVAL TIME]       ◄►
DATE[UTC]:       --/--
TIME[UTC]:       --:--
```
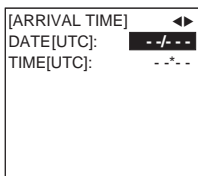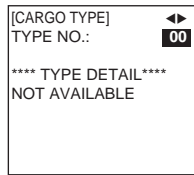
6. DATE[UTC] is selected; press the **ENT** key.
7. Enter the date of arrival then press the **ENT** key.
8. TIME[UTC] is selected; press the **ENT** key.
9. Enter the estimated time of arrival then press the **ENT** key. Use 24-hour notation.
10. Press ► to show the DRAUGHT sub-menu.

```
[DRAUGHT]            ◄►
SOLAS DRAUGHT:   0.0 m
INLAND DRAUGHT:
               0.00m
```
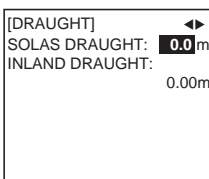
11 SOLAS DRAUGHT is selected; press the **ENT** key.
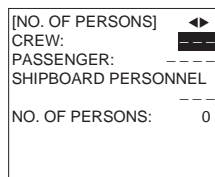12. Enter SOLAS draught then press the **ENT** key.

13. INLAND DRAUGHT is selected; press the **ENT** key.
14. Enter inland draught then press the **ENT** key.
15. Press ► to show the CARGO TYPE sub-menu.

```
[CARGO TYPE]         ◄►
TYPE NO.:            00

**** TYPE DETAIL****
NOT AVAILABLE
```
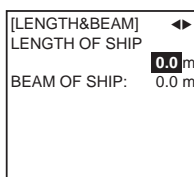
16. TYPE NO. is selected; press the **ENT** key.
17. Select type of vessel/cargo then press the **ENT** key.
18. Press ► to go to the ERI CODE sub-menu.

```
[ERI CODE]           ◄►
ERI CODE:         8000


****CODE DETAIL****
VESSEL,
TYPE UNKNOWN
```
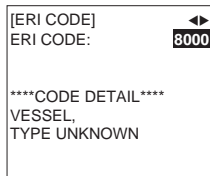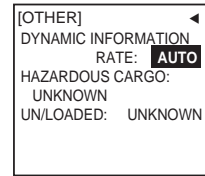
19. ERI CODE is selected; press the **ENT** key.
20. Enter four-digit ERI code then press the **ENT** key.
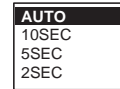21. Press ► to go to the NO. OF PERSONS sub-menu.

```
[NO. OF PERSONS]     ◄►
CREW:
PASSENGER:          ---
SHIPBOARD PERSONNEL
                    ---
NO. OF PERSONS:       0
```

22. CREW is selected; press the **ENT** key.
23. Enter number of crew then press the **ENT** key.
24. PASSENGER is selected; press the **ENT** key.
25. Enter number of passengers then press the **ENT** key.
26. SHIPBOARD PERSONNEL is selected; press the **ENT** key.
27. Enter number of shipboard personnel then press the **ENT** key.
28. NO. OF PERSONS is selected; press the **ENT** key.
29. Enter the total number of persons then press the **ENT** key.
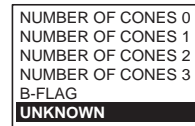30. Press ► to go to the LENGTH&BEAM sub-menu.

```
[LENGTH&BEAM]        ◄►
LENGTH OF SHIP
                0.0 m
BEAM OF SHIP:   0.0 m
```

31. Enter the length and beam of your ship, pressing the **ENT** key after entering each item.
32. Press ► to go to the OTHER sub-menu.

```
[OTHER]              ◄
DYNAMIC INFORMATION
           RATE:  AUTO
HAZARDOUS CARGO:
  UNKNOWN
UN/LOADED:    UNKNOWN
```

33. DYNAMIC INFORMATION RATE is selected; press the **ENT** key.

```
AUTO
10SEC
5SEC
2SEC
```

34. Select option then press the **ENT** key.
35. HAZARDOUS CARGO is selected; press the **ENT** key.

```
NUMBER OF CONES 0
NUMBER OF CONES 1
NUMBER OF CONES 2
NUMBER OF CONES 3
B-FLAG
UNKNOWN
```

36. Select appropriate item then press the **ENT** key.
37. UN/LOADED is selected; press the **ENT** key.
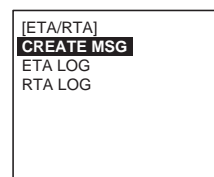
```
UNKNOWN
LOADED
UNLOADED
```

38. Select appropriate item then press the **ENT** key.
39. Press the **DISP** key to close the menu.

How to send an ETA message
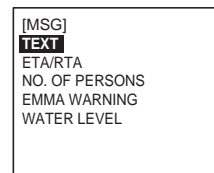
1. Press the **MENU** key.
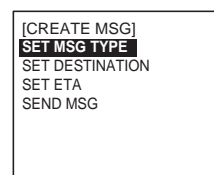2. Select MSG then press the **ENT** key.

```
[MSG]
TEXT
ETA/RTA
NO. OF PERSONS
EMMA WARNING
WATER LEVEL
```

3. Select ETA/RTA then press the **ENT** key.

```
[ETA/RTA]
CREATE MSG
ETA LOG
RTA LOG
```

4. CREATE MSG is selected; press the **ENT** key.

```
[CREATE MSG]
SET MSG TYPE
SET DESTINATION
SET ETA
SEND MSG
```

5. SET MSG TYPE is selected; press the **ENT** key.

```
[SET MSG TYPE]
MMSI    : 000000000
CHANNEL: ALTERNATE
RETRY TIMES: 3
```
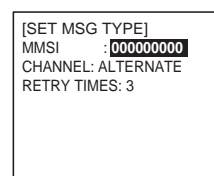
6. MMSI is selected; press the **ENT** key.

7. Enter the MMSI of the lock/bridge/terminal you want to pass through then press the **ENT** key.

8. CHANNEL is selected; press the **ENT** key.

```
ALTERNATE
BOTH A & B
A
B
```

9. Select the channel over which to send the message then press the ENT key.

10. RETRY TIMES is selected; press the **ENT** key.

11. Enter the number of times to re-send the message (if the first transmission is unsuccessful) then press the **ENT** key. An ETA message can be resent a maximum of three times.

12. Press the **MENU** key to return to the CREATE MSG menu.

13. Select SET DESTINATION then press the **ENT** key.

```
[SET DESTINATION]

* * * * * * * * * * * * *   (0/0)
[NEW?]

(If you have entered some
destinations, they appear here.)
```

14. NEW is selected. If your destination is shown on screen, select it, press the **ENT** key then go to step 18. To enter a new destination, go to step 15.

15. With NEW selected, press the **ENT** key.

```
[SET DESTINATION]
ENTER A NEW DEST
COUNTRY CODE:       ▇
LOCATION CODE:
FAIRWAY NO. :       00000
TERMINAL CODE:
FAIRWAY HECT:       00000
            QUIT: [MENU]
```

16. COUNTRY CODE is selected; press the **ENT** key. Enter the UN country code of your destination, referring to ISO 3166, then press the **ENT** key.

17. Enter location code, fairway no., terminal code, and fairway hectometre.

18. Press the **MENU** key twice to return to the CREATE MSG menu.

19. Select SET ETA then press the **ENT** key.

```
[SET ETA]
ETA
  DATE[UTC]         - - / - - -
  TIME[UTC]         - - : - -
AIR DRAUGHT:        0.00 m
NO. OF TUGBOATS:    -
```

20. DATE[UTC] is selected; press the **ENT** key.

21. Enter the day (1-2 digits) and month (three-character abbreviation) of ETA then press the **ENT** key.

22. TIME[UTC] is selected; press the **ENT** key.

23. Enter your ETA, in 24-hour notation, then press the **ENT** key.

24. AIR DRAUGHT is selected; press the **ENT** key.

25. Enter your ship's air draught then press the **ENT** key.

26. NO. OF TUGBOATS is selected; press the **ENT** key.

27. Enter the no. of assisting tugboats (0-6) your ship requires then press the **ENT** key. Enter "0" for none.

28. Press the **MENU** key to return to the CREATE MSG menu.

29. Select SEND MSG then press the **ENT** key. You are asked if you are sure to send the message. Select YES then press the **ENT** key to send the message.

How to send a text message

1. Press the **MENU** key to open the menu.
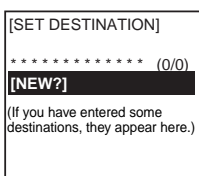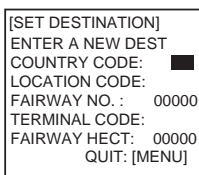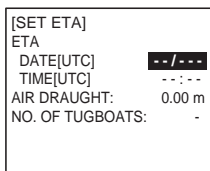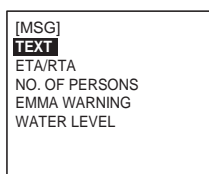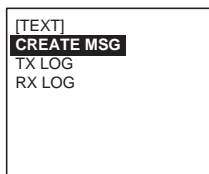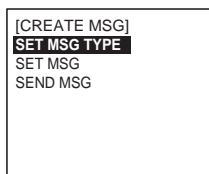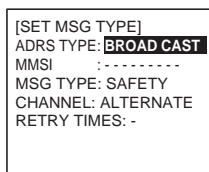
2. Select MSG then press the **ENT** key.

```
[MSG]
TEXT
ETA/RTA
NO. OF PERSONS
EMMA WARNING
WATER LEVEL
```

3. TEXT is selected; press the **ENT** key.

```
[TEXT]
CREATE MSG
TX LOG
RX LOG
```

4. CREATE MSG is selected; press the **ENT** key.

```
[CREATE MSG]
SET MSG TYPE
SET MSG
SEND MSG
```

5. SET MSG TYPE is selected; press the **ENT** key.

```
[SET MSG TYPE]
ADRS TYPE: BROAD CAST
MMSI      : - - - - - - - - -
MSG TYPE: SAFETY
CHANNEL: ALTERNATE
RETRY TIMES: -
```

6. ADRS TYPE line is selected; press the **ENT** key.
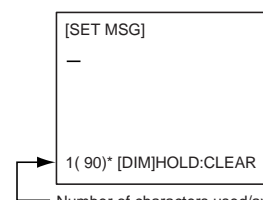
```
BROAD CAST
ADRS CAST
```

7. Select ADRS CAST or BROAD CAST as appropriate.

8. Press the **ENT** key. **For ADRS CAST**, select MMSI then enter MMSI no.

9. Select MSG TYPE then press the **ENT** key.

```
SAFETY
NORMAL
```

10. Select message type: NORMAL (message other than safety) or SAFETY (important navigational or meteorological warning). Press the **ENT** key.

11. CHANNEL is selected; press the **ENT** key.

```
ALTERNATE
BOTH A & B
A
B
```
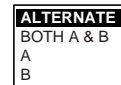
12. Select which channel to transmit your message over then press the **ENT** key.

13. RETRY TIMES is selected; press the **ENT** key. If the ADRS TYPE is BROAD CAST go to step 14. For ADRS CAST, enter the number of times to re-transmit a message (0-3) then press the **ENT** key.

14. Press the **MENU** key to return to the CREATE MSG sub-menu.

15. Select SET MSG then press the **ENT** key.

```
[SET MSG]
—




  1( 90)* [DIM]HOLD:CLEAR
```
Number of characters used/available

16. Use the **CursorPad** to enter your message.

17. Press the **MENU** key to return to the CREATE MSG sub-menu.

18. Select SEND MSG then press the **ENT** key. The prompt shown below appears.

```
SEND MESSAGE.

   ARE YOU SURE?
   YES      NO
```
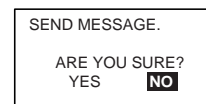
19. Press ◄ to select YES then press the **ENT** key to send your message.

How to display an RTA message

1. Press the **MENU** key to open the menu.

2. Select MSG then press the **ENT** key.

3. Select ETA/RTA then press the **ENT** key.

4. Select RTA LOG then press the **ENT** key to show the RTA log.

5. Select message then press the **ENT** key.

```
[RTA LOG]        1/2
STATUS
      LIMITED OPERATION
RTA: 05/JUN    12:32 UTC
```
Lock Status → STATUS
Your RTA → RTA: 05/JUN

```
[RTA LOG]        2/2
COUNTRY CODE:     DE
LOCATION CODE:    TRI
FAIRWAY NO.:      01234
TERMINAL CODE: 11111
FAIRWAY HECTOMETRE
                 01000
```
Lock particulars