em-trak

201-0735:2

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BUOY-Tracker AIS Transponder
INSTALLATION GUIDE

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1. What do I need?

Included

Identifier bracket   U-bolts

Locking ring   x 4 Nuts
    x 4 Washers
    x 2 Security screws
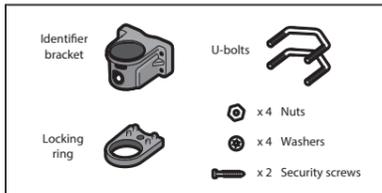
Fixings kit (417-0025)
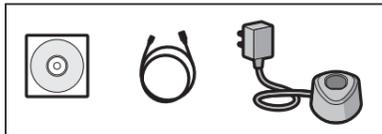
BUOY-Tracker

Configuration charger (417-0068)

Not included

Spanner (10mm)   PC

Protective cap & lanyard

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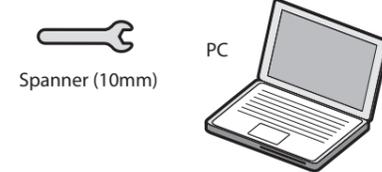
2. Charging BUOY-Tracker

Fully charge BUOY-Tracker before first use.

1   2   3   4

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3. Bracket installation

Install at the highest point
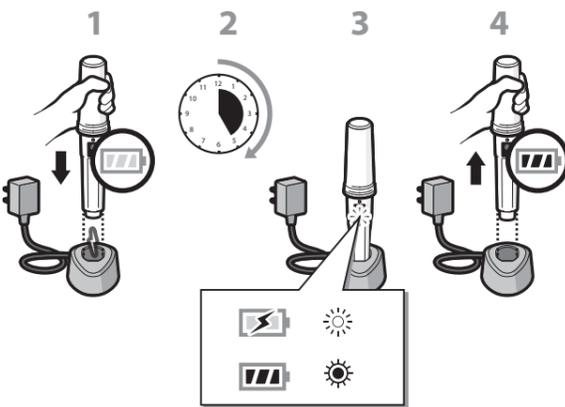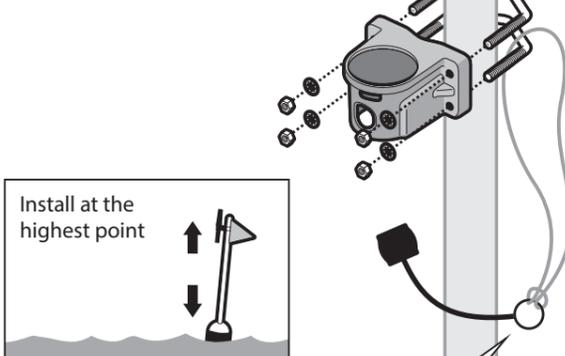
Secure lanyard to protective cap and loop the lanyard onto the bracket as shown

1

2

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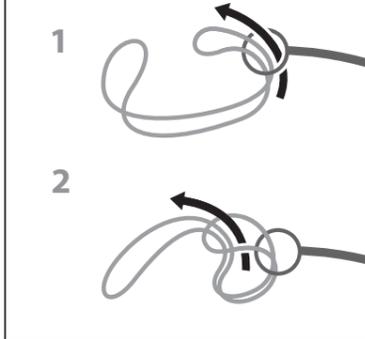
4. BUOY-Tracker configuration

1. Install the supplied proBUOY-Tracker software from the CD provided.

2. Connect the configuration charger to a PC via the supplied USB cable and insert BUOY-Tracker into the powered configuration charger.

**3.** Run the BUOY-Tracker software and select the required mode of operation.

⚠ **This product is not approved for use in 'BUOY-Tracker' mode in all countries, for further clarification please check with your local authorities.**

AIS AtoN mode

1. Select AIS AtoN mode.

2. Connect to BUOY-Tracker by selecting the required COM port and clicking 'Connect'.

3. Configure BUOY-Tracker as required (see CONFIGURATION FIELDS below).
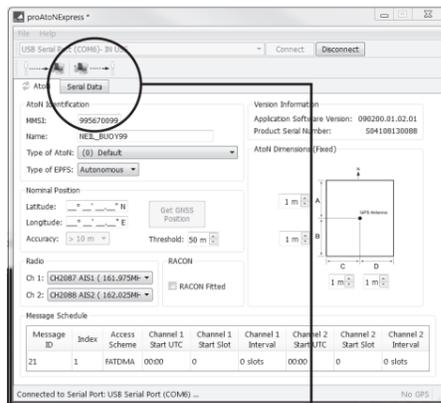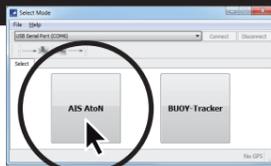
4. Click the icon shown to send the configuration to BUOY-Tracker.

5. Disconnect from BUOY-Tracker by clicking 'Disconnect'.

6. Repeat steps above to configure additional BUOY-Tracker's in this mode.
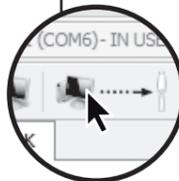
CONFIGURATION FIELDS

AtoN name: Enter the AtoN name or other identification.

MMSI number: Enter the AIS AtoN's 9 digit MMSI number.

AtoN type: Select the most appropriate AtoN type from the drop down list.

Type of EPFS: The EPFS used by the AtoN can be set to either Autonomous (uses the GNSS fix) or Surveyed (uses the nominal position entered). For surveyed positions the accuracy of the measurements (less than or greater than 10m) can be added.

Nominal Position: The charted (or intended) location of the structure being marked.

Off Position Threshold: The distance (m) by which the AtoN may vary from its nominal position before it reports being off position.

RACON Fitted: Allows the setting of the racon fitted flag in the message #21 to indicated that a radar beacon is also available at the reported location.

Message Schedule: The start slot, interval between messages and start UTC for both channels A and B can be configured for the message #21.

AtoN's dimensions: Enter the AtoN dimensions, referenced to the location of the AIS AtoN, to the nearest whole metre.

Configuration of AIS operating frequencies: Select the required operating VHF frequencies for transmissions.
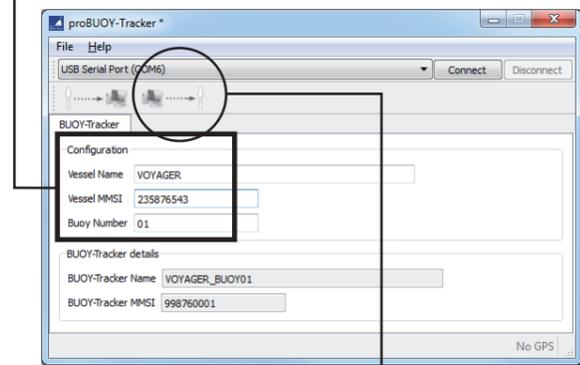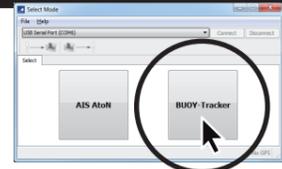
The default channels are:

Channel A = 161.975MHz

Channel B = 162.025MHz

The default channels are intentionally reserved for AIS and should not normally be adjusted.

BUOY-Tracker mode

1. Select BUOY-Tracker mode.

2. Enter the **parent vessel name**, **parent vessel MMSI** and a **unique number** from 1 to 99 for the BUOY-Tracker.

3. Click the icon shown to send the details to BUOY-Tracker and disconnect from BUOY-Tracker.

4. Disconnect from BUOY-Tracker by clicking 'Disconnect'.

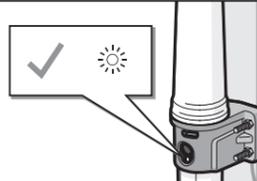**5.** Repeat steps above to configure additional BUOY-Tracker's in this mode.

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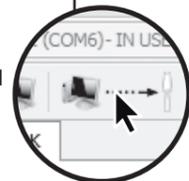
5. Install BUOY-Tracker

1

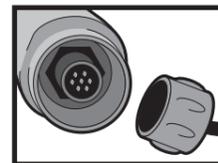⚠ **The protective cap must be used.**

2   4   3

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6. Check operation

BUOY-Tracker is working correctly when the light flashes once every 5 seconds.

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7. Recharge BUOY-Tracker

Charging will be required approximately once every 5 days. The indicator will flash twice to indicate battery is low.

⚠ **Before charging check that the connector is dry.**

Charge as shown in Step 2.

LED Flash codes

In operation

1 short flash in 5 seconds	....	Operating normally
2 short flashes in 5 seconds	....	Low battery
5 short flashes in 5 seconds	....	Waiting for GPS fix
7 short flashes in 5 seconds	....	No MMSI

In the charger

1 long flash in 5 seconds	....	Charging
1 short flash in 5 seconds	....	Charge complete