988-11132-001

SIMRAD

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ADDENDUM NSS evo2

- **sw releases 3.5 and 3.6**

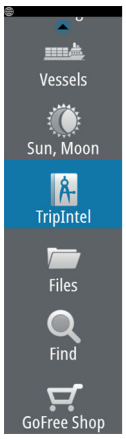
This addendum documents new features that are included in NSS evo2 software releases 3.5 and 3.6, and that are not described in the NSS evo2 Operator manual or other documentation.

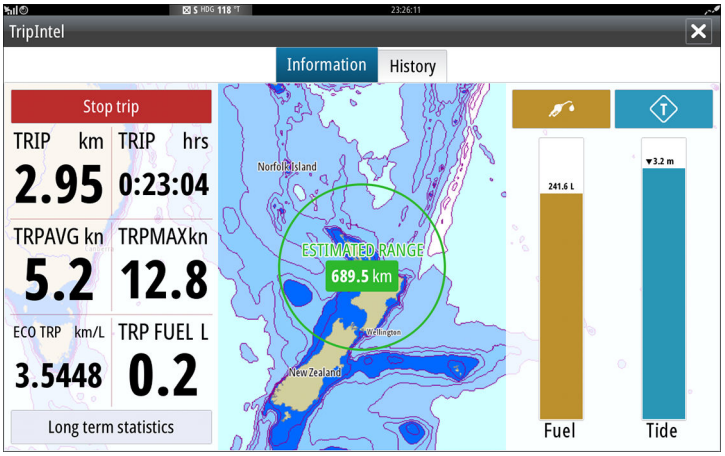
TripIntel

TripIntel lets you store and recall information on trips. You can use the information to make informed decisions prior to commencing a trip, or when a trip is underway.

→ ***Note:*** For best results, it is recommended to run software version 2.4.0 or newer in your EP-85R Storage Device.

Select the TripIntel button on the Tool panel to display the TripIntel page.





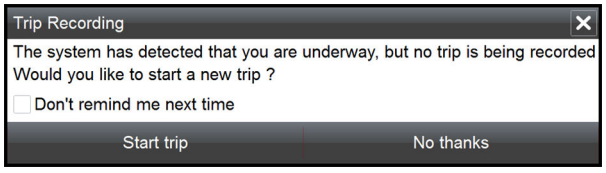
Current trip statistics

The Information tab on the TripIntel page shows current trip statistics:

- Distance traveled
- Time traveled
- Average speed
- Maximum speed
- Fuel economy
- Fuel used

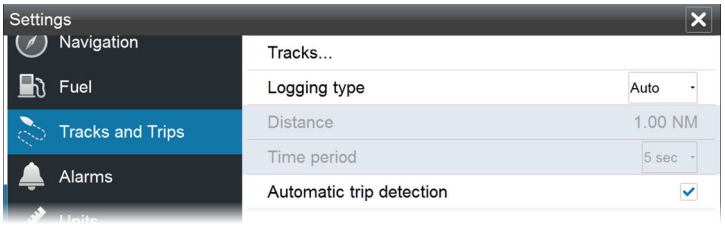
Automatic trip recording

There is an automatic trip detection feature. When you start navigating you are prompted to start recording the trip if no trip is currently underway and your speed has been more than 2 knots for 20 seconds. You will be prompted to continue a trip or start a new trip if the trip was not explicitly saved before a power off.



You can manually start the recording later from the TripIntel page.

You can turn off the automatic trip detection feature from the Tracks and Trip settings dialog.



Start and stop trip recordings

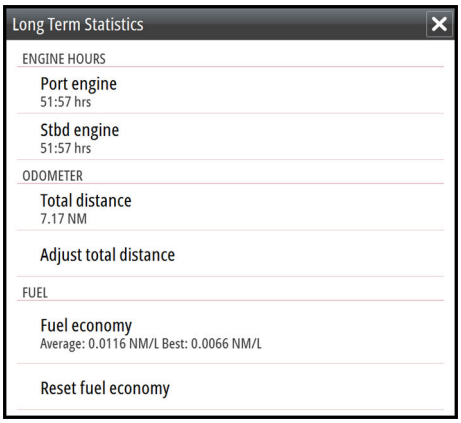
If you have selected to not start recording a trip from the automatic trip detection prompt, you can manually start a recording from the TripIntel page.

The **Start** and **Stop** trip options let you specify a trip recording. You can use them to segment a single passage into multiple trips providing a finer level of control of the information that is logged for a journey.

Long-term statistics

Long term statistics

Select Long Term Statistics to view seasonal trip information such as engine running hours, total distance traveled, and fuel economy.



Adjust total distance

Select the Adjust total distance button to change the Total distance. Use this option if you have not recorded a trip or part of a trip that you have taken and want to include the distance in the Total distance statistic.

Reset fuel economy

Select **Reset fuel economy** to reset the fuel economy in the Fuel economy gauge on the Instrument bar.

Estimated fuel range ring

The Estimated fuel range ring on the TripIntel page represents the estimated total distance that the boat can travel based on historical consumption, and the amount of fuel left in the tanks.

➔ ***Note:*** The Estimated fuel range ring represents fuel consumption on a one way trip only, it does not include fuel estimates for the return trip to your current location. It represents the distance in which your boat will completely run out of fuel.

➔ ***Note:*** The Estimated fuel range ring is calculated from the Vessel Fuel Remaining only, not level sensors. When recording your refueling, you must 'Set to full' or 'Add fuel' for the range ring to be accurate.

Fuel gauge

The Fuel Gauge on the TripIntel page, and on the economy gauge is displayed based on the setting in the Vessel Setup page. You must select the Fuel Remaining measurement type.

- Fuel consumed by engine(s)
- Fuel tank level sensor(s)

➔ ***Note:*** This is only for the TripIntel page and the economy graph.

Record your refueling

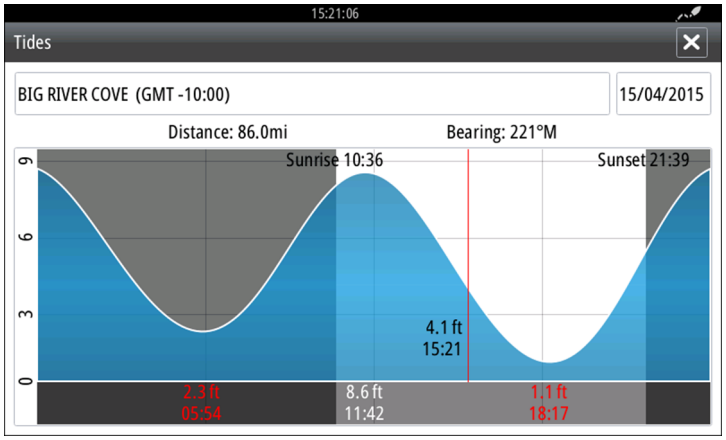
Select the Fuel button to record the amount of your refuel. The refuel information is used for calculating the Vessel Fuel Remaining amount.

Tide gauge

The Tide gauge on the TripIntel page shows the tide height at the selected tide station.

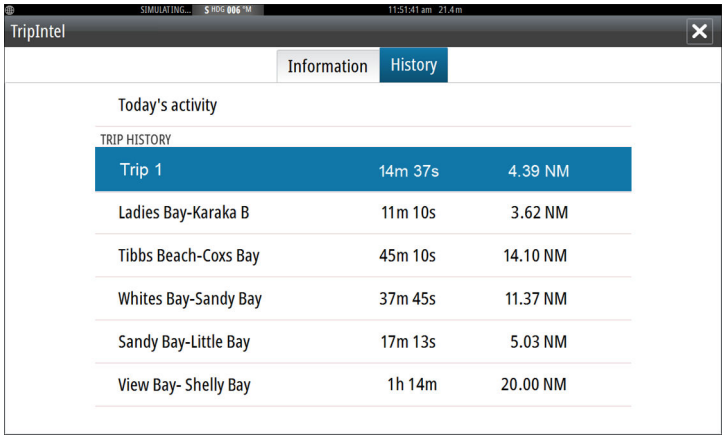
Tide graphs and stations

Tide stations on Chart cards provide tide information. Select the Tide button to view tide graphs and specify which Tide station provides tide information. If no tide station is chosen, tide information from the nearest tide station is used.



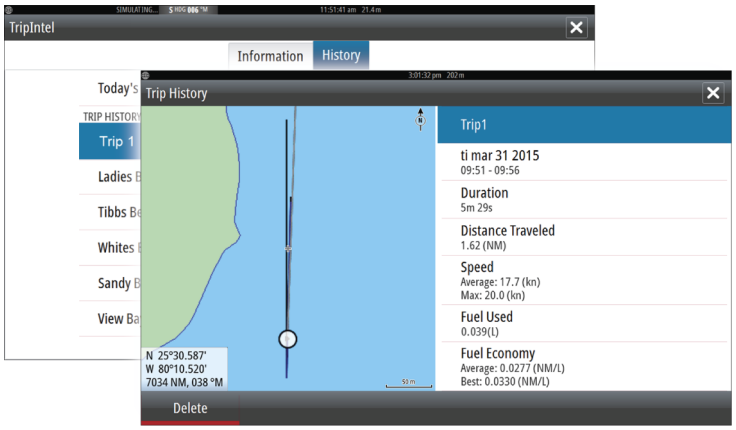
View trip recordings

Recorded trips are listed in the History tab on the TripIntel page. To view detailed trip information select a trip in the list.



Change trip recording names

Trips are given generic names when they are created. You can change the trip name to a more meaningful one by selecting it on the History list and then select the name in the Trip History details dialog. This opens the Trip name dialog where you can change the trip name.



SonicHub 2 support

A SonicHub 2 connected to the NMEA 2000 network is supported.

SonicHub 2 Device Information

Open the Network Settings dialog and select the SonicHub 2 device in the Device list. This opens the SonicHub 2 Device Information dialog.

Configure

Select to configure the device.

Upgrade

Updates the device software.

→ ***Note:*** A USB memory stick with the software upgrade must be plugged into the device. Periodic software updates may be available from the product website. Detailed instructions for how to install the software are included with the upgrade files.

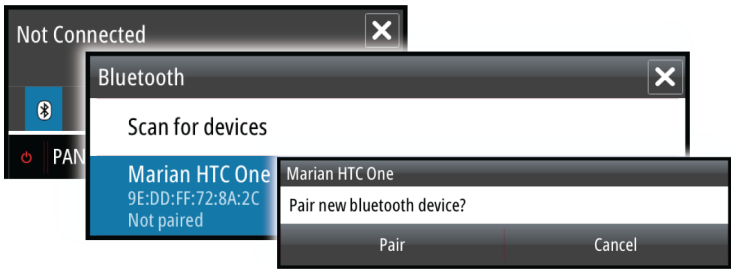
Factory Reset

Resets the device to factory defaults.

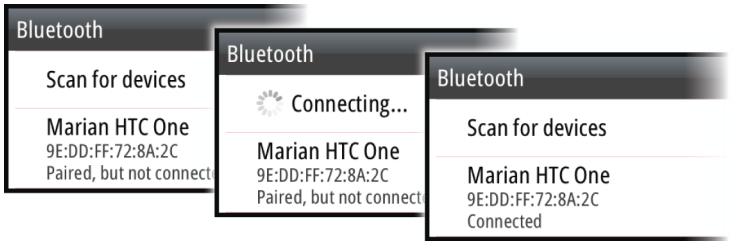
SonicHub 2 is Bluetooth enabled

The SonicHub 2 is a Bluetooth enabled device. You can use the SonicHub 2's built-in Bluetooth wireless to connect it to Bluetooth enabled audio devices.

To pair the SonicHub 2 to a Bluetooth enabled device select the Bluetooth devices icon in the **Controls** menu. Choose the Bluetooth device you want to pair to from the list of available devices and then select Pair.



The SonicHub 2 connects to the paired device.

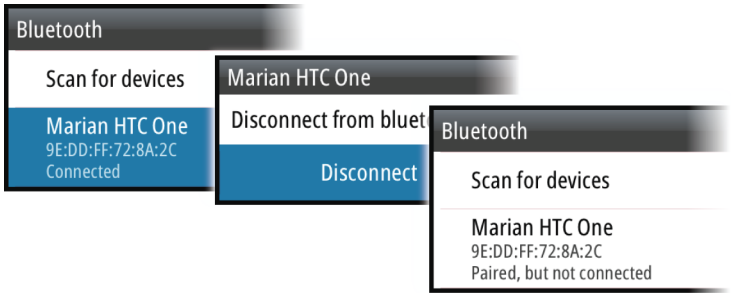


Connecting and disconnecting paired devices

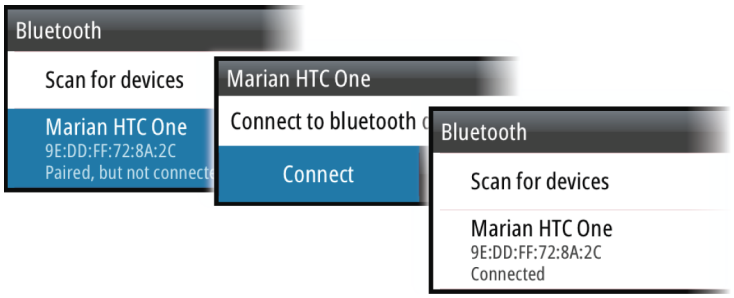
The SonicHub 2 automatically connects to a device when you pair them. You can pair it to several devices but only one device can be connected at a time.

You can manually disconnect and connect the SonicHub 2 to paired devices.

To disconnect a paired device, select the paired device in the device list and then select **Disconnect**.



To connect to a paired device, select the paired device in the device list and then select **Connect**.

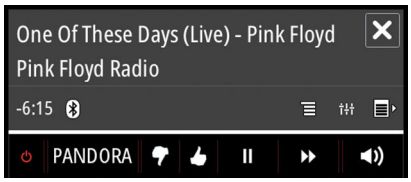


Pandora

The SonicHub 2 supports streaming music from Pandora from an Android device (over Bluetooth) or IOS device (over USB and Bluetooth).

➔ ***Note:*** You must be in a valid location to use Pandora. Refer to the Pandora website for more information.

Use menu controls to run Pandora on the smart device.



New SiriusXM weather features

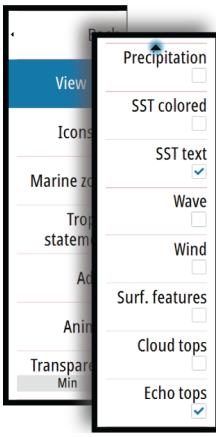
SiriusXM data sources have been integrated to provide improved accuracy and detail. Improvements include sea-surface temperature (coastal and the Great Lakes), nearshore wave height, and inland wind speed and direction. Support for new SiriusXM Canadian marine zone text is added and the Marine zone feature is changed. In addition, there are 3 new View menu options.

Marine zones

Depending on your selected subscription, SiriusXM services includes access to weather reports for U.S. and Canadian Marine Zones, with the exception of the high seas zones.

You can select a marine zone on a chart and view its forecast. You can also select a marine zone as your current zone of interest and you will be notified of any weather warnings in that zone.

New View menu options



Surface features

Turns surface features on/off. Surface features include fronts, isobars, and pressure points. Surface features cannot be shown at the same time as Wind.

Cloud tops

Turn Cloud tops on/off. Cloud tops indicate the height of the top of the clouds. The color palette used is grey with darker greys indicating lower clouds. Cloud tops cannot be shown at the same time as Precipitation or Echo Tops.

→ ***Note:*** This feature is only available for certain SiriusXM subscriptions.

Echo tops

Turns Echo tops on/off. Echo tops indicate the tops of storms. The color palette used is the same as for Precipitation. Echo tops cannot be shown at the same time as Precipitation or Cloud Tops.

→ ***Note:*** This feature is only available for certain SiriusXM subscriptions.

System and network devices analyzer

The system has a built-in network analyzer that creates a report of the devices installed on the NMEA 2000 and Ethernet network. It can also create a service report about your system and network devices such as the software versions, serial numbers, and information from the settings file.

To use the analyzer, open the About page of the System settings dialog and select Support. Two options are displayed:

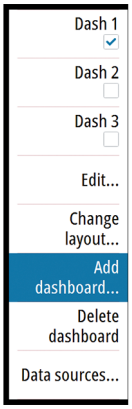
Create report

Prompts you for information for support and creates the report with information automatically gathered from the network. You can add screenshots and log files to the report. The maximum report size is 20 MBs. You can save the report to a memory card and email it to support.

Check system for updates

Checks if updates are available for compatible devices on your network.

→ ***Note:*** To ensure the internal list of software versions is up to date, your system must be connected to the internet.

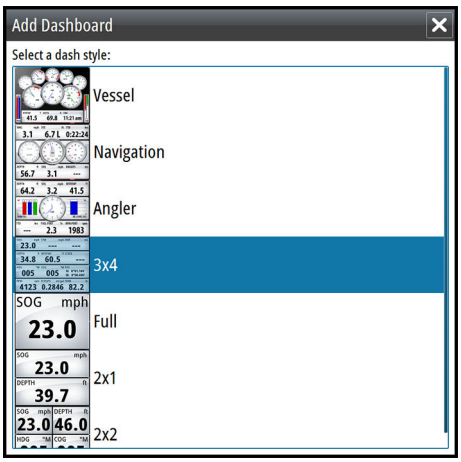


New dashboard layouts

New predefined dashboard layouts (3x4, Full, 2x1, 2x2) are available for the Instrument panel.

You can select the new dashboard layouts when you add a new dashboard or change a dashboard's layout. After you select the new layout, specify which gauges are to be displayed in the dashboard using the edit menu option.

The '3x4' layout displays 4 rows with 3 gauges in each row, 'Full' displays one gauge, '2x1' displays 2 rows with 1 gauge in each row, and '2x2' displays 2 rows with 2 gauges in each row.



StructureScan® 3D support

StructureScan 3D is supported. StructureScan 3D is a multi-beam sonar technology that allows anglers to see underwater structure and bottom contours in customizable, three-dimensional views.

For more information, refer to the separate StructureScan 3D documentation.

Precision-9 compass support

The Precision-9 compass is supported. It connects to the NMEA 2000 network. The Precision-9 compass outputs magnetic heading data suitable for autopilot steering, and also rate of turn, pitch, and roll.

Separate documentation is provided with the Precision-9 compass.

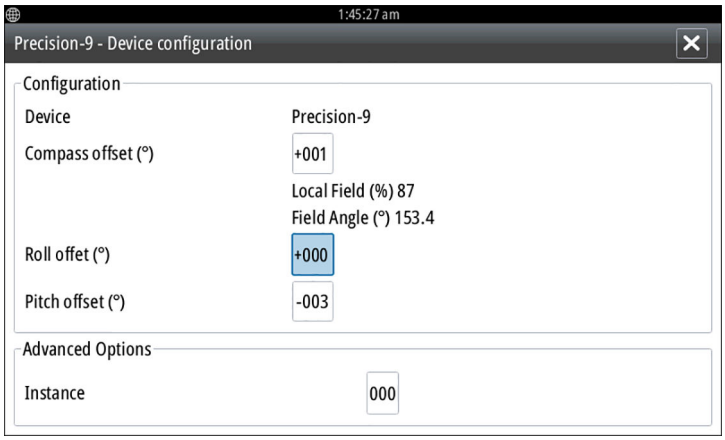
Precision-9 configuration

Heading, Roll and Pitch offset

Used for compensating the mechanical offsets resulting from the selected location and orientation of the compass.

Instance

The device instance is determined by the configuration process. It should only be required to change this if identical devices on the network are not automatically given unique instance numbers.



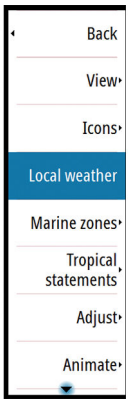
TotalScan™ transducer support

The TotalScan transducer is supported. The TotalScan transducer is an all-in-one transducer combining CHIRP sonar capabilities with exclusive high-resolution StructureScan® HD and DownScan Imaging™ technology. Separate documentation is provided with the TotalScan transducer.

SiriusXM weather information and alerts added

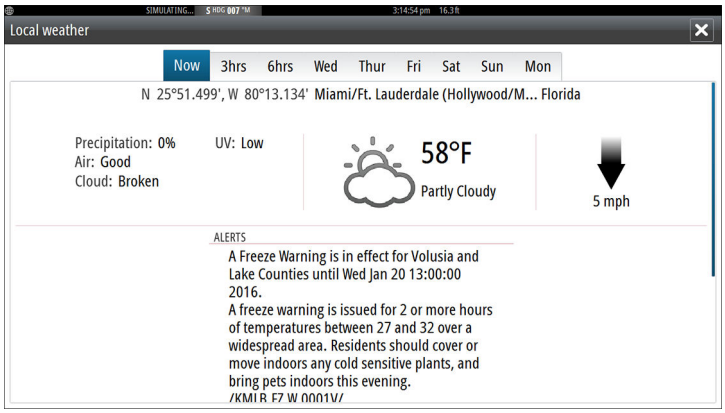
SirusXM local weather information for major cities can be displayed. The information includes weather forecasts and alerts.

Local weather



Select the Local weather menu option to display the Local weather dialog. This dialog shows weather forecast and alerts for the area.

Select a time-slot tab to see the forecast for it.



Network analyzer and service assistant improvements

This feature name is changed to Network analyzer and service assistant, it was previously referred to as the System and network devices analyzer.

When an internet connection is made:

- and Check system for updates is selected, the Network analyzer and service assistant will inform you if a sw update is available for download
- service reports can be uploaded to support directly from the system

→ ***Note:*** Remove any mapping cards from your unit and install a memory card with sufficient storage before downloading software updates or creating and saving reports to the memory card.

Using the NSS evo2 in an AP70/AP80 system

If your MFD is connected to an AP70/AP80 autopilot system, the MFD can be used to operate the autopilot.

In an AP70/AP80 autopilot system, only one control unit can be active at the same time.

→ ***Note:*** The MFD cannot be used to configure or commission an AP70/AP80 system.

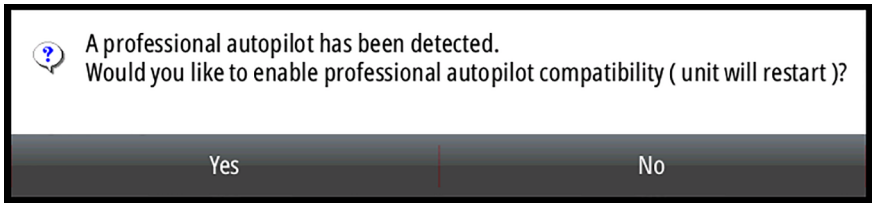
	The thruster symbol on the MFD Mode button indicates thrusters are defined in the AP70/AP80 autopilot system.

For more information about AP70/AP80 autopilot system, refer to the separate AP70/AP80 documentation.

Autopilot detection

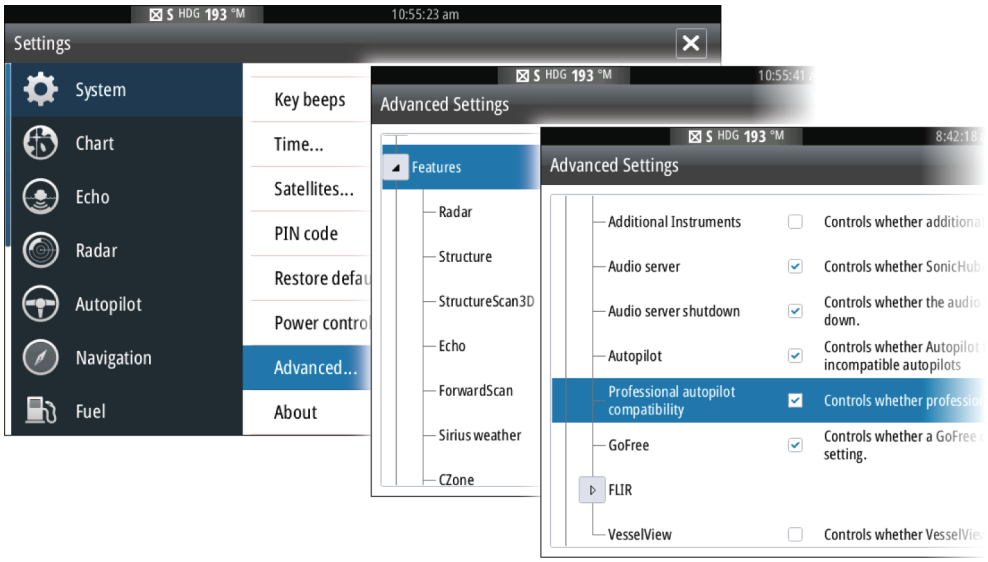
The AP70/AP80 system has its own source groups. For compatibility reasons if the MFD is going to be used to run the AP70/AP80 system, the MFD must use the same source groups as the AP70/AP80 system.

When a MFD is connected to an AP70/AP80 system, it detects the AP70/AP80 system and a prompt is displayed asking if the MFD should restart and use the AP70/AP80 system source groups (restart in professional autopilot compatibility mode).



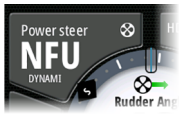
If yes is selected, then the MFD restarts using the same source groups as the AP70/AP80 system. If No is selected then the question is not asked again and the MFD cannot be used to operate the AP70/AP80 system.

This setting can be changed by selecting Professional autopilot compatibility in the Advanced settings dialog.



Running thruster symbols

When thrusters are running in an AP70/AP80 system, thruster symbols are displayed in the MFD Autopilot controller pop-up.



	Clockwise thrust rotation.
	Counter-clockwise thrust rotation.

Command transfer

An AP70/AP80 system can be set up as a Master system or an Open system.

In a Master setup, the master controller gives control to other control units. An MFD cannot be the master controller in a Master setup. In a Master setup, the MFD can request to control the autopilot and the MFD must accept control from the master controller after the master controller approves transfer of control to the MFD. Once control is accepted, the MFD is active and can be used to operate the autopilot.

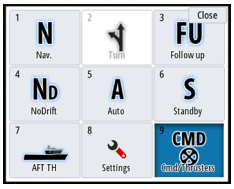
In an Open system setup, the MFD can take control of the autopilot by selecting the Mode button on the Autopilot controller pop-up and then selecting **Take cmd** in the CMD transfer dialog. When this occurs the MFD becomes active and the other control units become passive.

In an Open system, control stations can be temporarily locked to avoid accidental control from another control unit. When the MFD has control in an Open system, the MFD can lock and unlock all passive control units. If the MFD is passive and locked, it can request control of the autopilot from the active control unit. The MFD must accept control from the active controller after the active controller approves transfer of control to the MFD.

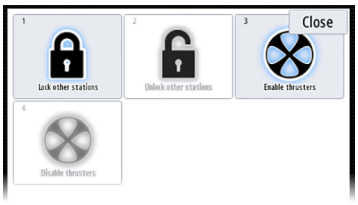
The following indicators are displayed in the Mode button of the Autopilot controller pop-up:

	Passive - MFD does not have control of the autopilot. If only the passive icon is displayed, it means it is an Open unlocked system and selecting the Mode button takes control of the autopilot.
	Locked system - The key icon indicates it can be a Master system or a locked Open system. If the key icon is displayed, and the <10, <1, 10>, 1> buttons are enabled (red or green colored arrows and white numbers) then the MFD is active and controls the autopilot.  If the key icon is displayed, and the <10, <1, 10>, 1> buttons are disabled (black arrows and numbers) then the MFD is passive and does not control the autopilot. Select the Mode button to request control from the active control unit if it is a locked Open system, or the master controller if it is a Master system. 
none	Active in Open system - the MFD has control of the autopilot in an Open system.

Locking and un-locking other control units

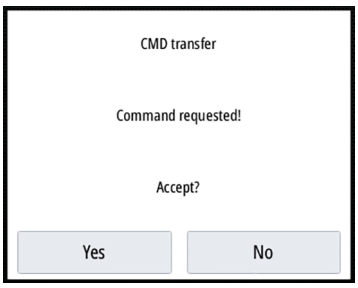


Select the Cmd/Thruster option in the Mode selection pop-up to open the Cmd/Thruster selection pop-up.

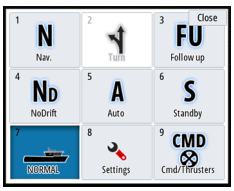


Unlock other stations - allows other control units to take control of the autopilot without requesting permission.

Lock other stations - locks other control units from taking control of the autopilot. When other control units are locked, they must request control of the autopilot from the MFD. When control of the autopilot is requested from another control unit, a prompt is displayed in the MFD to authorize command transfer.



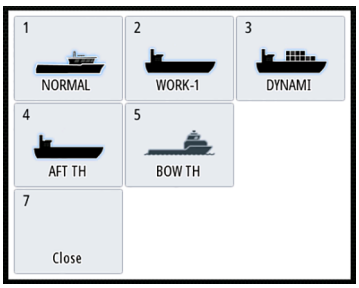
Selecting the work profile



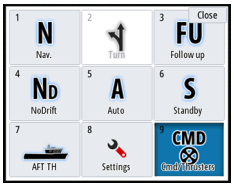
The AP70/AP80 can be set up with 6 different work profiles associated with different work modes or preferences. Use the AP70/AP80 controller to set up the different work profiles. In the MFD, the active work profile is displayed in the Mode button of the MFD Autopilot controller pop-up and the Mode selection pop-up. If the MFD has control of the autopilot, you can use it to select which work profile is active.

To change the work profile using the MFD, the autopilot must be in standby mode.

1. Select the Mode button in the Autopilot controller pop-up to display the Mode selection pop-up
2. Select the Work profiles button to display defined work profiles in the Work profiles selection pop-up



3. Select the work profile you want to activate
4. Select Close to close the Work profiles selection pop-up.



Enabling and disabling thrusters

Select the Cmd/Thrusters button in the Modes selection pop-up to open the Cmd/Thrusters selection pop-up.

The Cmd/Thrusters selection pop-up provides options to enable or disable thrusters.