Model: GP-39

Using the GP39 as an SCX-21 (NMEA0183) Display and Setting Device

Model: GP-39 with **Model: SCX-21**

GP-39 version 03.01 software and above includes a function, which allows the GP39 to be used as a **data display as well as an initial setting device of the SCX-21 SATELLITE COMPASS**. This document describes the displays and setting options, as well as interconnection and setup instructions.

1. Navigation Displays for SCX-21

The following display pages are added to the GP-39 with v3.01 software and above to show data from an SCX-21.
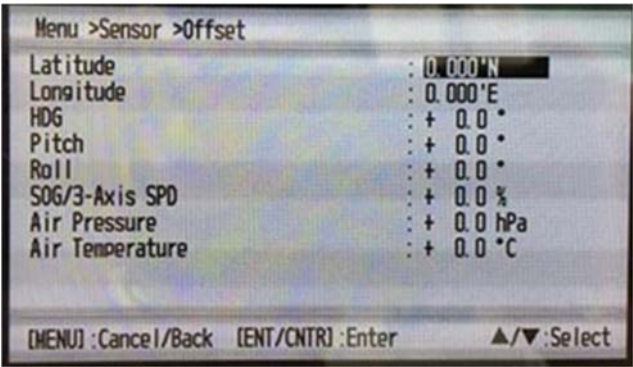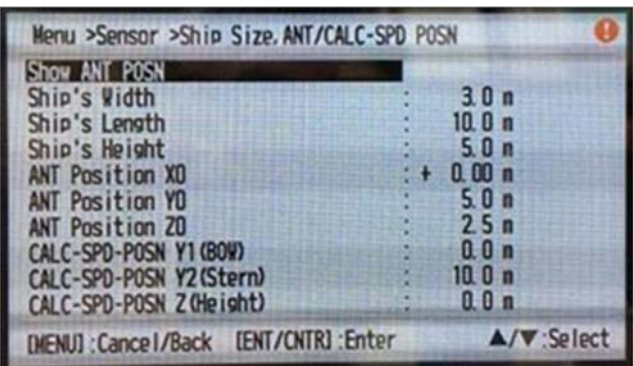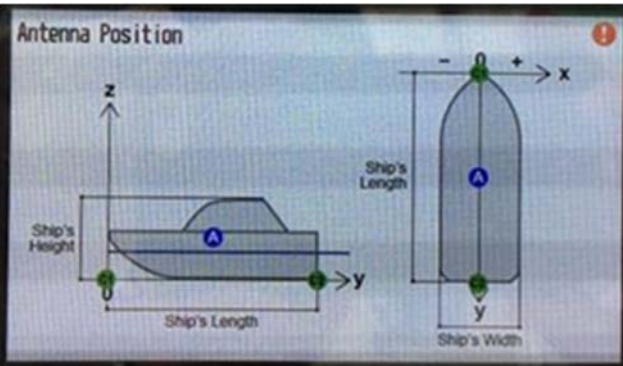
Display	Example	Remarks
Satellite Monitor		In addition to the conventional page, GNSS satellite display, 4-antenna display, and masking area display are also supported.
Heading		The heading data from SCX-21 is displayed in the same graphical image as the RD-33, SC-70/130, etc.
3-Axis Speed		3-axis speed is indicated numerically with arrows to indicate the transverse speed at the bow and stern.
ROT		The ROT meter as well as heading and SOG helps to see how own ship is turning.
Attitude – Roll/Heave/Pitch		The Altitude page shows how own ship is rolling, pitching, and heaving graphically and numerically.

2. Setting Menus for SCX-21

In addition to the conventional GP-39 settings, the following items are added.

- ➤ **Prohibited GNSS satellite** (QZSS, GPS, GLONASS, Galileo)
- ➤ **Offset** (Heading, Pitch, Roll, SOG/3-Axis SPD, Air Pressure, Air Temperature)
- ➤ **Smoothing** (SOG/COG, 3-Axis Speed, ROT)
- ➤ **DR time**
- ➤ **Ship size, antenna location, 3-axis speed position**
- ➤ **I/O Setup** (Data2, Data3) (Data 2 is output only)
- ➤ While the SCX-21 has three (3) output ports, Data 1 is used to connect to the GP-39 and NMEA0183 data is output from Data 2 and 3.
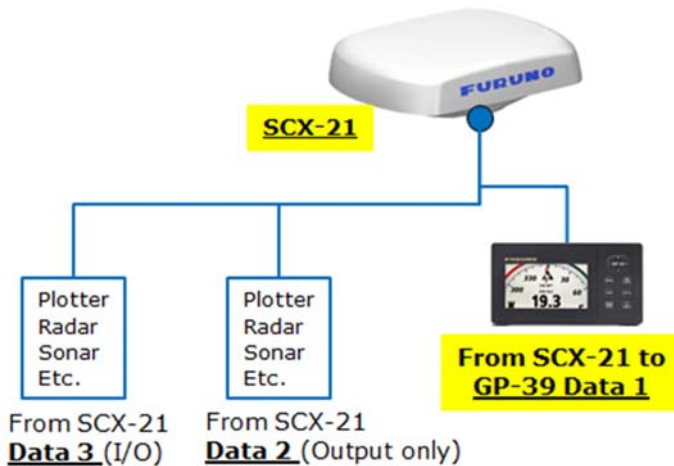
Sample Screens	
Offset	**Smoothing**
Ship Size, ANT/CALC-SPD POSN	**Antenna Position in Illustration**

3. Interconnection and Settings

3.1. Interconnection

Make sure to connect the GP-39 to the <u>SCX-21 – Data 1 port</u>.

Notes:

(1) When the SCX-21 is connected to the GP-39, the original antenna GPA-017 or GPA-C01 **CANNOT** be used.

(2) In the configuration of an SCX-21 with a GP-39, the GP-39 NMEA0183 output port is occupied by the SCX-21. **In order to output/input data from/to the SCX-21, utilize Data 2 and Data 3 ports of SCX-21. (Data 2 is output only)**

3.2. Setting – Operation Mode

Change the operation mode of the GP39 to make the GP-39 work as an SCX-21 display.
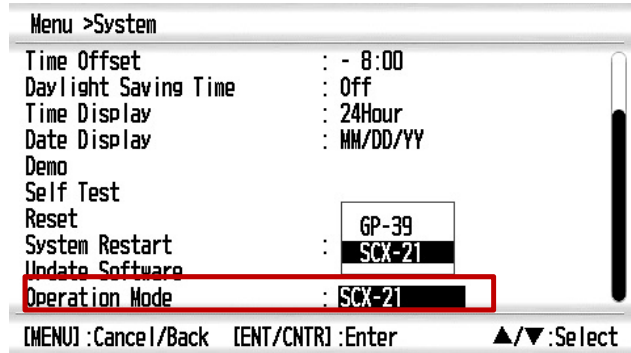
Option 1 – When turning the power on for the first time…

When the SCX-21 is turned on for the first time, the Installation menu will launch: Access [**Operation Mode**] and select [**SCX-21**]. (Default: [GP-39]) After changing the mode, the GP-39 will restart.
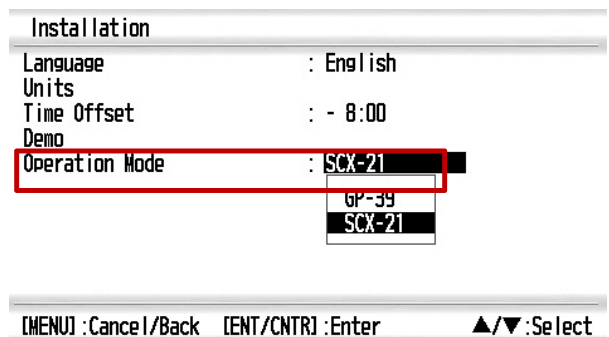
Option 2 – If the GP-39 has been turned on before…

In [Menu] – [System] – [**Operation Mode**], select [**SCX-21**]. (Default) [GP-39]) After changing the mode, the GP-39 will restart.

Menu >System

Time Offset	: - 8:00
Daylight Saving Time	: Off
Time Display	: 24Hour
Date Display	: MM/DD/YY
Demo	
Self Test	
Reset	GP-39
System Restart	: SCX-21
Update Software	
Operation Mode	: SCX-21

[MENU]:Cancel/Back   [ENT/CNTR]:Enter   ▲/▼:Select

3.3. Update Guidance

For a GP-39 with v02.01 or earlier, update to v03.01 or higher to connect to the SCX-21.

If the GP-39 is already loaded with v3.01 or higher, change the operation mode to [SCX-21] to use the GP39 with the SCX-21. Set the mode to [GP-39] as default to use it as a GP-39 with a GPA-017 or GPA-C01 GPS antenna.

--- END ---

- *SATELLITE COMPASS is trademarks of FURUNO.*

- *All brand and product names are registered trademarks, trademarks or service marks of their respective holders.*