

## SEAKEEPER SOFTWARE UPDATE



PRODUCT      SEAKEEPER 1 THROUGH 40

### PURPOSE

This bulletin provides details of the functionalities designed in the Seakeeper gyro control module (GCM) and user interface software update of August 2024.

### BACKGROUND

Seakeeper is committed to continuous improvement, regularly releasing software updates to ensure our products remain at the forefront of technology and maintain peak reliability. These updates also address potential issues, providing users with the confidence that their equipment is continuously operating at its best, offering cutting-edge stability and safety.

### REFERENCES

- [SWI-137 – ConnectBox Data Log Retrieval](#)

### DESCRIPTIONS

#### ALARM HISTORY RETENTION

An extended alarm history is desirable when attempting to diagnose some Seakeeper issues. The previous user interface software allowed up to 32 alarms to be viewed on the alarm history screen. If the alarm history were cleared, the erased alarms would not be retrievable. This update now allows alarm history to be cleared on the display yet stored in the user interface memory for up to 32 alarms. Once the Seakeeper Service Tool app is installed on a Seakeeper, the entire alarm history will be available in the alarm history screen. Once the Service tool is removed, the history will return to its previous state after ten seconds.

#### DATA LOGGER FUNCTIONALITY

The ConnectBox software, 3.3.8 (3.003.0008 as seen on the Service Tool app), has an internal data logger capability. The logger function is triggered by an alarm or a user request from an MFD Service screen override page. Note that in the absence of an MFD, the manual initiation of a data log is unavailable. The logger's activation will capture 70 seconds of data. The log files will contain all Seakeeper CAN traffic, NMEA 2000 SoG signal (speed over ground), and NMEA battery monitor messages. A total of 200 logs can be stored in the ConnectBox. Once this number is exceeded, the oldest logs are replaced by new ones. A technician should not extract data from a Seakeeper unless the owner's permission has been recorded within the Settings page hidden screen (see [SWI-137](#)). This ensures that personal data is handled according to the owner's preferences and that privacy rights are respected.

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ADDITIONAL SERVICE SCREEN PARAMETERS

The Service screen previously displayed the motor drive output current. This was not useful for diagnosing motor drive voltage issues; current and voltage input are more useful in diagnostics (see Figure 1). Parameters such as input power, spool time, and coast power are essential; these are now added to the ConnectBox and GCM software. Note: The ConnectBox and the GCM must be updated to display these additional parameters.

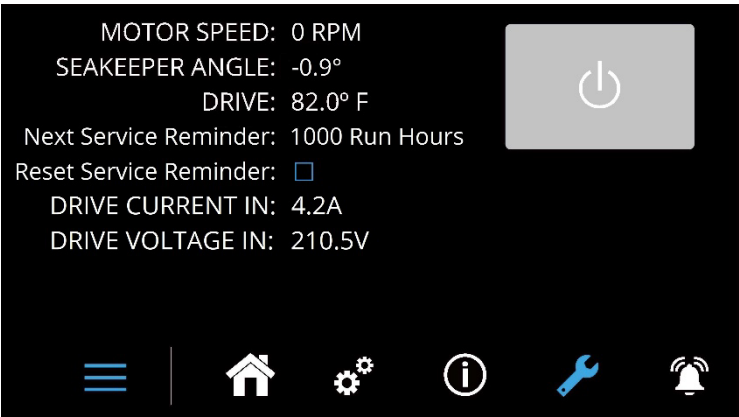


Figure 1: Service screen with updated ConnectBox and GCM software

When the Seakeeper Service Tool is installed on the unit, the drive input power (in Watts), the last spool time, the last steady state power, the last coast power, and the reset integral terms (resets proportional valve offset to 1.00) are available in a Settings page hidden screen. An additional tab will be seen on the Settings page hidden screen when the Service Tool is installed: 'Performance Info' (see Figure 2).

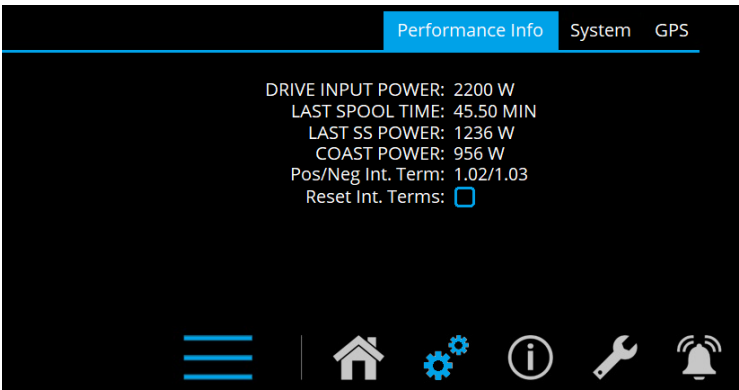


Figure 2: Hidden Settings screen with additional parameters