Lodestar Subsea AHRS
QUICK START GUIDE

Sonardyne
SOUND IN DEPTH

Tel: +44 (0)1252 877600   Email: support@sonardyne.com

INSTRUCTIONS:
Install Lodestar configuration software on PC, then follow the numbered steps (in the coloured circles) to connect to and then configure the Lodestar for AHRS use. See the **Key** for explanation of which steps are required or optional.

Refer to the following manuals on the supplied documentation CD for further instructions:
• Lodestar Hardware
• Lodestar AHRS Operation
• Lodestar AHRS Messages

Key
- ⭕ Required step for **ALL** operation
- ⭕ Required step for **SERIAL** operation
- ⭕ Required step for **ETHERNET** operation
- ⭕ Optional step for **GPS** compensation

START

Using Console Test Cable? Check BLUE pins are connected.

1 Connect power to the CONSOLE cable (P/N 8084-136).

2 Connect the CONSOLE cable (P/N 8084-136) to the serial port of a PC. Connect the cable to Lodestar's CONSOLE port (CP).

3 Connect the COMMS cable (P/N 8084-137) to the Lodestar C1 port. This port will provide the primary AHRS output

5 Connect the ETHERNET cable (P/N 8084-138) to the Lodestar C2 port. This port will provide input and output

4 Connect the GPS input cable to T1 port with TCVR cable (P/N 820-139)

6 Power Lodestar, wait 1 minute….

7 Start configuration software on the PC

8 Press **Configure** button to set-up connection and connect to Lodestar

9 Enter **Default Latitude** on **Gyro-Compass** tab, press **Apply**

10 Configure output on **C1** port tab, press **Apply**

11 Configure output on **Ethernet E1** port tab, press **Apply**

12 Configure **GPS Compensation** on **Gyro-Compass** tab, press **Apply**

13 Having made changes press **Full Reset**.

Lodestar
About…
INS Settings
System | Terminal | Console | C1 | E1 | T1 | T2 | Gyro-Compass | Offsets | SD Card | Time | GPS | File Transfer

Lodestar Console Connection
PC Port: COM1   [Connect] [Disconnect]   Connected to Lodestar Console Port

Housing Type
SUBSEA

Version
Firmware: 2.05.00.788   [Download Firmware]
SMART FPGA: 5
Interconnect FPGA: 2
Serial Number: 270729-002   [Reset To Factory Default]

Audible Alarm
☑ Enable

Shutdown/Reset
[Shutdown]
[GC Reset]
[Full Reset]

Dynamic Display
[Launch]

Licence
Pic SN: 9935
Application Level: SUBSEA_INS
User Level: Customer
Licence Key: [   ]   [Write]

Lodestar Configuration
[Retrieve from Lodestar]   [Send to Lodestar]

GPS-INS Sigma Level   Refresh   Apply

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