

TSG log

Date July 1 20

GPS Data

On Advanced Tab

Instance Ship's GPS

Input Tab

COM9 9600 Baud

Outputs Tab

COM10 4800 Baud

Virtual COM2 (for GPD)

Virtual COM15 (for Hyperterm logging)

Advanced Tab

Instance SBE38

Input Tab

COM13 9600 Baud

Output Tab

COM10

Desktop icons for Ship's GPS - capture
SBE48 - capture

Date July 4 2008

Honeywell Controller setup

Cycle through Lower display by repeatedly clicking on it.

Check SP ~~18.4~~ 20.0 ← target pressure
leave on OUT (pump % output) ← shows what pump is doing

If all is well, no need to change anything under Function or Setup

If Man, ^(man in upper display) you can set pump output by cycling through Lower Display to OUT & then changing it with arrow keys

If Auto ^{(A) in upper display} pump output will automatically change to keep target pressure, but with a maximum output of 35% to avoid startup transients.

PUMP STARTED 08:45 July 5/08

SP = 18.46

5 July 1255 increase SP to 20.0 JE

6 July 0730 all running fine

7 July 2100 Pump was stopped, controller in manual - restarted by pressing stop, start red/green button.

2400 Local time changes to GMT-4 from GMT-3

8 July 1203^{UTC} 63 20.13 56 37.41 Loop Sal 5

Page

Date July 8

UTC 1815 TSG Laptop had rebooted itself.

COM Port setup

Serial feed from ~~GPS~~ Novatel GPS in
on COM9

GPSTGate feeds this to

COM2 used to log w/ hyperterm

COM1 filtered for GPRMC

COM15 filtered for GPRMC → COM11 → TSG

TCP/IP port 20175

Vlinux COM ports

10.1.20.5:4000 12 - Novatel on LAN

10.1.20.5:4000 { 13 - SBE38, fed out to COM10

:4001 { 14 - SBE48, ~~fed out to~~

Need to use hyperterm to log SBE48, GPS on COM1

COM8 - Input to Sensave from TSG 9600, 8, None

Setup GIDLog.exe program

→ Com Port Setup.

GPS → COM1 4800, No, 8, 1, No

Pressure → No input

Optode → COM6 9600, No, 8, 1, No

GTD → COM4 9600, No, 8, 1, No

Data directory: C:\2008-LSL\lgy-data\

IF POWER FAILURE FOR SOME REASON

→ GTD must be restarted.

→ Go to Digiquartz Interative v. 1.2
Program

→ Select Com 4 A detect instrument.

→ Go to commands (For left tab).

→ Press start.

→ Select: "Continuously sample & send
pressure"

> wait for initialization.

> Once they come up on screen, quit program.

July 9 All running well SP 20 PSI
output 18.4%

10 1156 Loop SAL #9 73°25 10'N 68°56.98'W

10 2126 Pump discovered off. Hit stop/start to
get it going.
Went off ~ 1900 ±

2340 Debubbler working poorly - adjusted waste
value & Kates to get rid of bubbles &
then reset flows to gas box & gas cooler

11 0020 Loop 10 73 47.10 72 26.40

0021 lots of zooplankton to see in debubbler

11 1345 Loop 12 73 56.275 83 23.67

1503 Turned on water for displaying organisms later

2317 Pump shut down by ice? Stopped Sensors
to try reinstalling & see if that fixes
odd NMEA behaviour - Lat/Lon seconds
only show 000 in decimal digits

Leave pump off - ice conditions

Restarted hyper-term text capture of GPS & SBE48

Date July 15

Honeywell tuning

Setup → ~~Function~~ SETUP TUNING press FUNCTION

GAIN 0.330

RATE MW 0.01

RSET MIN 0.20

Security 0, etc

Setup → SP RAMP nothing set

Setup → ~~Alg~~ CONTROL Out Hi Lim 35.7%
SP Hi Lim 30 PSI

maximum pump % output