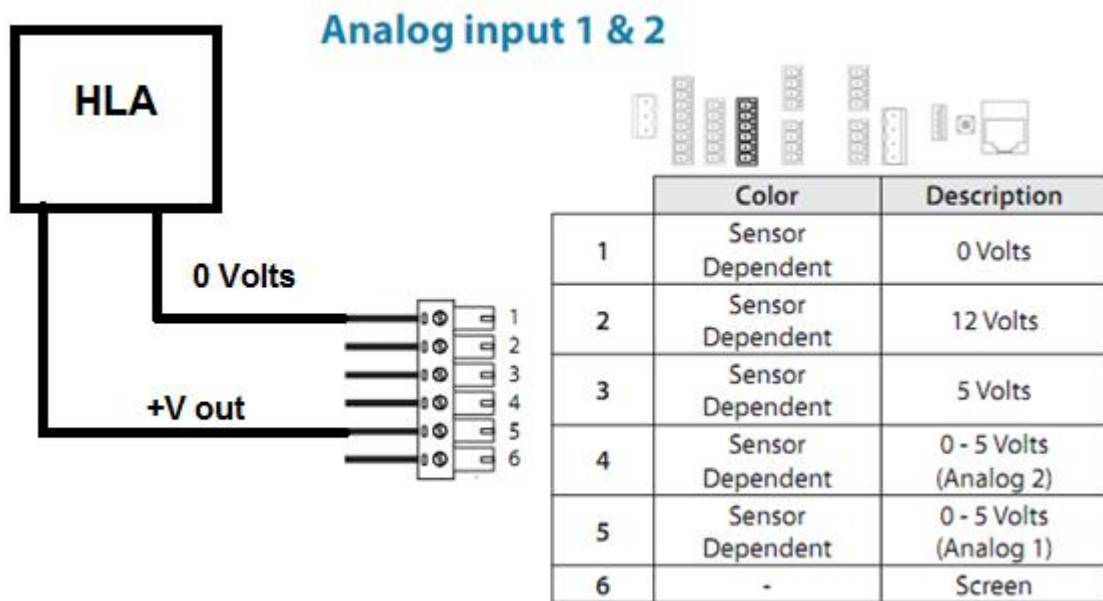


Calibrating HLA analogue output on H5000

Connect HLA analog voltage output to a free analog channel in H5000 CPU;



Connect over Ethernet to H5000 CPU Websocket – (default is <http://192.168.0.2>)

1. Go to System > Device list and select the appropriate channel – “H5000 Analog Channel x”
2. With HLA cal switch off and no load (V out = 0V) observe and record the value shown in the drop down page. It should read 0.00 if HLA has been zeroed correctly;

Simulator Enabled Websocket: Connected Help

Data HV Displays Calibration System CPU Sources

Settings Units Damping Alarms User Data Device List

GNX120 - 3897567632

H5000 Analog Channel 1 - 005428#

Name	Value	Unit	System Value
Analogue Channel 1	0.000		0

Configure

H5000 Analog Channel 2 - 005428#

H5000 Analog Channel 3 - 005428#

H5000 Analog Channel 4 - 005428#

H5000 Boat Speed - 005428#

H5000 CPU - 005428#

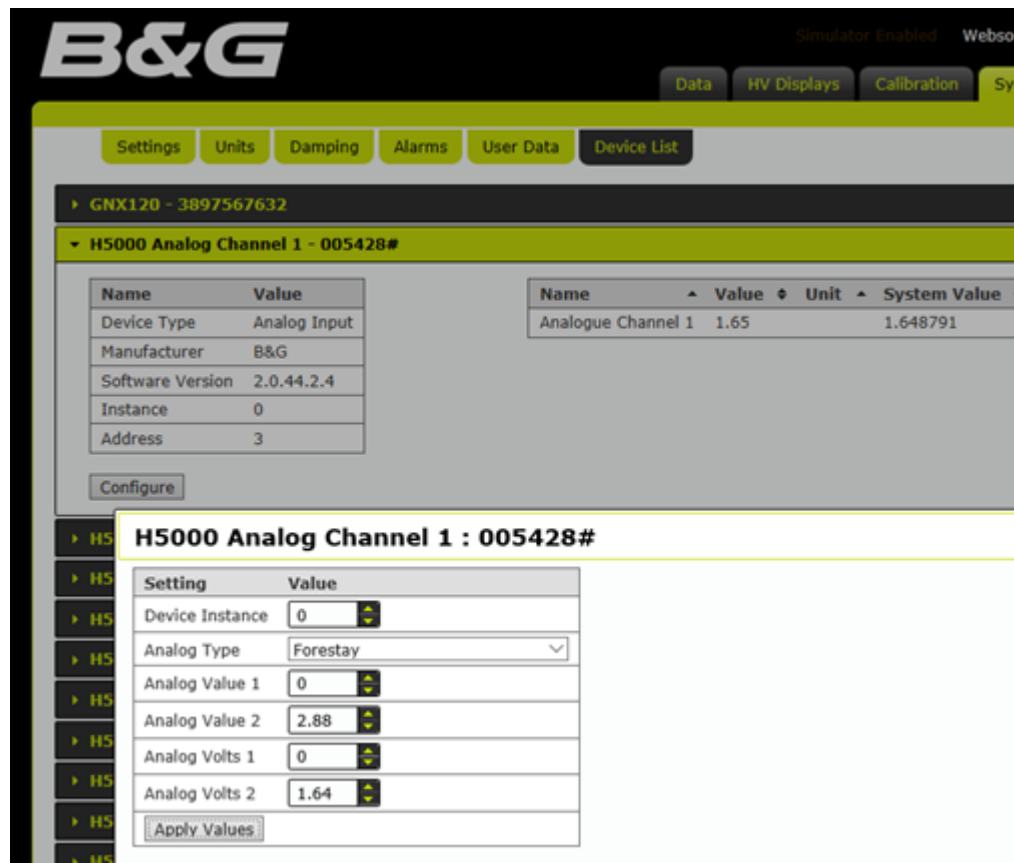
3. Turn Cal switch on and record new value. Again this should read the Cal equivalent voltage if the HLA has been correctly set up.

The screenshot shows the B&G simulator interface. At the top, the B&G logo is on the left, and status indicators 'Simulator Enabled' and 'Websocket: Connected' are on the right. Below the logo is a navigation bar with buttons for 'Data', 'HV Displays', 'Calibration', 'System', 'CPU', and 'Sources'. A secondary navigation bar contains 'Settings', 'Units', 'Damping', 'Alarms', 'User Data', and 'Device List'. The 'Device List' tab is active, showing a tree view of devices. The selected device is 'H5000 Analog Channel 1 - 005428#'. Below this, there are two tables. The left table lists device details: Name, Device Type (Analog Input), Manufacturer (B&G), Software Version (2.0.44.2.4), Instance (0), and Address (3). The right table is a data table with columns: Name, Value, Unit, and System Value. The first row in this table is 'Analogue Channel 1' with a value of '1.64'. A red arrow points to the '1.64' value. Below the left table is a 'Configure' button. At the bottom, a list of other devices is visible, including 'H5000 Analog Channel 2-4', 'H5000 Boat Speed', 'H5000 CPU', 'H5000 Graphic Display', 'H5000 MHU', 'H5000 NMEA0183 Port 1-2', 'LGC-3000', and 'W7 MFD'.

Name	Value
Device Type	Analog Input
Manufacturer	B&G
Software Version	2.0.44.2.4
Instance	0
Address	3

Name	Value	Unit	System Value
Analogue Channel 1	1.64		1.635897

4. Click on “Configure” button at the bottom left of the dropdown box.
5. In “Analogue type” dropdown box select appropriate type, e.g. “Forestay”
6. Fill in table; Analog value 1 - 0.00
 Analog value 2 - “Cal Equivalent Load” (e.g 2.88 Tonnes)
 Analog Voltage 1 - Recorded “zero” voltage from step 2.
 Analog Voltage 2 - Recorded “Cal” voltage from step 3.



7. Click on “Apply Values”
8. With Cal switch still on confirm that H5000 displays now read a “Forestay” value of the Cal equivalent load (in this example 2.88T)
9. Turn off Cal switch. System is now set up

N.B. If the web page is accessible when tuning the HLA analogue output, steps 1. and 2. can be used to adjust zero and span pots on the HLA as these values are simply reading voltage “V Out” from the HLA .