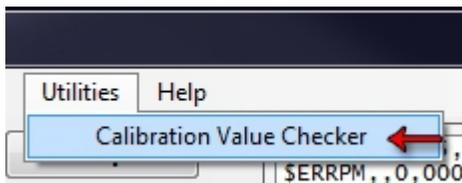


RS11/MD33 Tips & Tricks 1: Setup/Calibration Utility Troubleshooting Tools

Both the RS11 Setup Utility and the MD33 Calibration Utility have added a few features to assist in troubleshooting and assisting support with configuring.

Calibration Value Checker:

The **Calibration Value Checker** shows the configuration values, calculated, that will be sent to the RS11 or MD33. The **Calibration Value Checker** can be accessed by clicking **Utilities >Calibration Value Checker**.

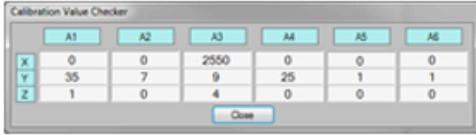


When the **Calibration Value Checker** is open, a **Calc** button will appear to the left of each analog's **Send** button. This will allow you to check calculations before sending them to the RS11/MD33. See the example below of the RS11 Setup Utility.

	A1	A2	A3	A4	A5	A6
Field	Rudder	Oil Press	Trans Oil Temp	Fuel Level	Batt Volts (P)	Alt Volts
Display units	degrees (°)	psi	Fahrenheit (°F)	% w/ Capacity	Volts (V)	Volts (V)
Sense Volts 1	0	0	0	0	0	0
field Value 1	0	0	0	0	0	0
Sense Volts 2	10	10	10	10	10	10
field Value 2	100	100	100	100	10	10
	Calc Send	Calc Send	Calc Send	Calc Send	Calc Send	Calc Send

When you click the **Send** button or **Config>Update All** and update your RS11/MD33, you can check the configuration values side by side with the query to see if correct values sent.

RS11 Setup Utility



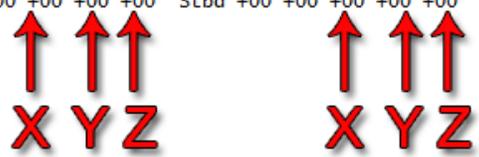
```
RS11 v3.42c#1234 [017,000/001] +B
Message1 Eng Rapid Port (On)/Stbd(Off) [ppr=030/---]
Message2 Eng Dynamic Port (On)/Stbd(Off) [ppl=1800/----]
Message3 Fuel Level Port (On)/Stbd(Off) [ltr=1893/----]
Message4 Trans Param Port (On)/Stbd(Off)
Message5 Batt Status Port (On)/Stbd(Off)
Message6 Water Level Port(Off)/Stbd(Off) [ltr=---/----]
Message7 Oil Level Port(Off)/Stbd(Off) [ltr=---/----]
Message8 Rudder Port (On)/Stbd(Off)
Message9 SmallCraft (Off)
A1= Port Rudder Pos [+0000,+035,1] Sense_current (Off)
A2= Port Oil Press [+0000,+007,0] Sense_current (Off)
A3= Port Trans Temp [+2550,+009,4] Sense_current (Off)
A4= Port Fuel Level [+0000,+025,0] Sense_current (Off)
A5= Port Batt Volts [+0000,+001,0]
A6= Port Alter Volts [+0000,+001,0]
```



MD33 Calibration Utility



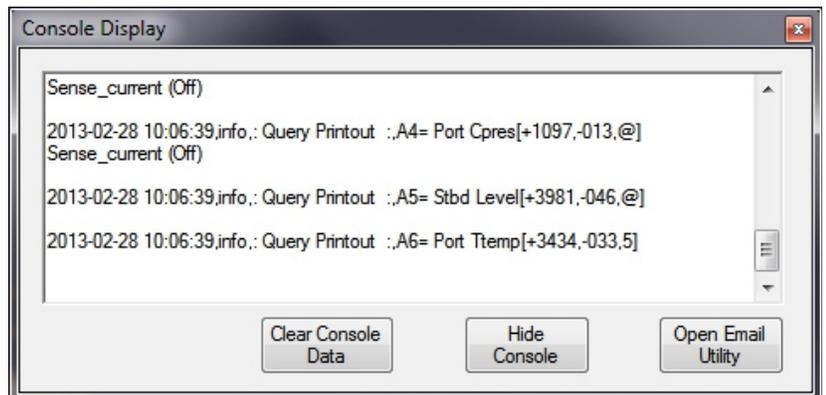
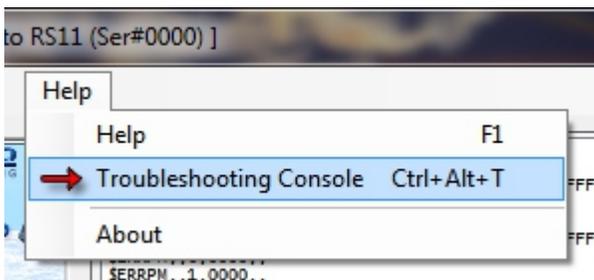
```
MD33 v2.19x#0000 [051,000,00,000/001] 0
BAUD RATE IN/OUT = 4800/4800 ERROR REPORT (On)
Message1 Eng Rapid Port (On)/Stbd (On) [ppr= 024/024]
Message2 Eng Dynamic Port (On)/Stbd (On)
Message3 Fuel Level Port (On)/Stbd (On) [ga] = FFFFFFFF/FFFFFFF
Message4 Trans Param Port(Off)/Stbd(Off)
Message5 Batt Status Port (On)/Stbd (On)
Message6 Water Level Port(Off)/Stbd(Off) [ga] = FFFFFFFF/FFFFFFF
Message7 Oil Level Port(Off)/Stbd(Off) [ga] = FFFFFFFF/FFFFFFF
Message8 Rudder Port(Off)/Stbd(Off)
A1 = Port-Opres [+1247,-022,@] Stbd-Opres [+0000,+007,1]
A2 = Port-Ctemp [+5806,-054,@] Stbd-Ctemp [+2550,+011,B]
A3 = Port-Level [+4434,-074,@] Stbd-Level [+0000,+025,1]
A4 = Port-<off> [+0000,+013,8] Stbd-<off> [+0000,+013,8]
A5 = Port-Volts [+0000,+001,0] Stbd-Volts [+0000,+005,1]
M1-5 Port +00 +00 +00 +00 +00 Stbd +00 +00 +00 +00 +00
```



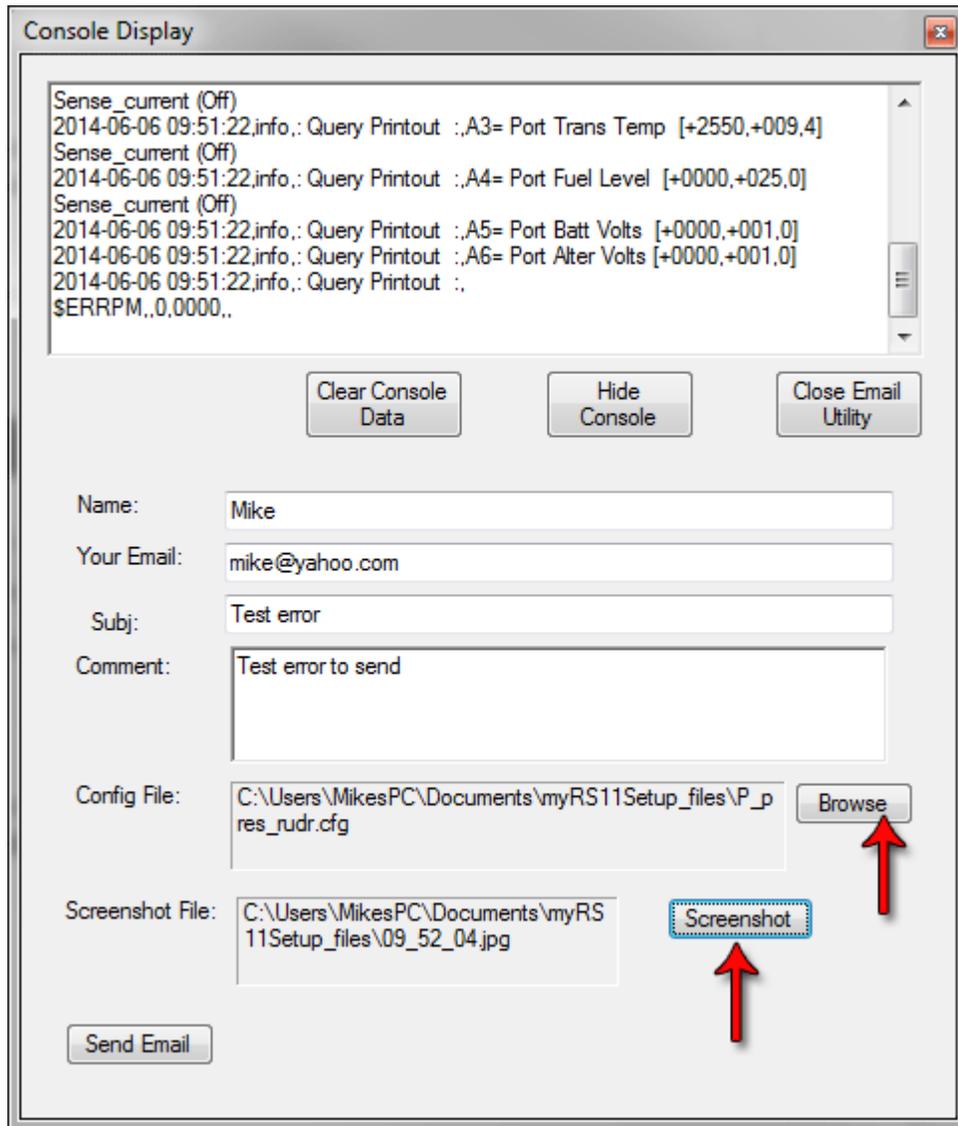
Troubleshooting Console:

The **Troubleshooting Console** logs all functions related to updating the RS11/MD33, including queries, calculation results, and updating results. Any other errors that occur during the “Connected” state will be recorded here, as well.

To access the **Troubleshooting Console**, either click **Help>Troubleshooter Console**, or press **Ctrl + Alt + T**.



This console can be emailed to us, for further troubleshooting, if necessary. Click Open Email Utility to open the email console.



Just fill out the information. Click **Browse** to attach a config file. Click **Screenshot** to attach a screenshot. Click **Send Email** to send. We have set up special email accounts for the RS11 and MD33 to receive these troubleshooting emails for quicker response.