

Pirga from s15

On the trip to S15 yesterday (Oct 20), took a photo of the EC100 internals, to help address the issue why Pirga seems to be low by about 1 mb. It's probably not of much use, but here it is.



Around 11:25 EDT I rserial'd to the EC150 on S15 (port 5). The pressure setting can be changed with the "O" command. It is a hassle because we don't know how to disable the unprompted output, and so the menu prompts are interspersed in the binary output.

Here's what it looks like the response to the O command:

0) Pressure Source:\r\n1) Pressure Calibration:\r\n2) Differential Pressure Select:\r\n3) Temperature Source:\r\nEnter Selection:

Entered "0" (zero) and got:

0) Internal\r\n1) External\r\n2) CS106 (External)\r\n3) Fixed Pressure\r\n0xaa

Entered 1 for the external barometer. However, then Pirga went to 22 and the h2o and co2 values became NaN. Switching it back to the internal barometer resulted in Pirga=1008, and the h2o and co2 values returned.

From Steve Oncley:

So...it is a mystery why the "external" barometer isn't working and why this box apparently was set to use the "internal" barometer. I thought it had been working using the external. This sensor was used in CABL.

12:30 EDT, queried pressure calibration:

O (pressure menu)

1 (pressure calibration)

1 (external)

Response (with the binary output removed):

Current Calibration values for external pressure: Gain = 1.000000, Offset = 0.000000

Enter new Gain and Offset (comma separated):

I didn't change these values.