

	Product	ALL Gen 4 EFIS Products	
	Release	ALL	
	Subject	Air Data Calibration	
	Original	07/17/2007	Larry Romig

The following document contains the procedure for air data calibration (airspeed and altimeter) of your Generation 4 EFIS products including the EFIS Lite, Lite Plus, Sport, E-2 and EFIS One. While your Blue Mountain Avionics was calibrated at the factory, there may be times when the unit needs to be recalibrated to meet IFR certification or for general purposes.

Blue Mountain recommends that aircraft equipped with analog instruments (steam gauges) and EFIS equipment, or multiple EFIS units, be calibrated all at the same time, on the same pitot static equipment, by the same technician on the same day under the same conditions, for the best results. Under all circumstances the EFIS unit should be allowed to reach its operating temperature by allowing the EFIS to warm for approximately 10 minutes.

The procedure is the same for both airspeed and altimeter.

Please use the following procedure to calibrate your Gen 4 EFIS unit.

- Boot the EFIS and plug in the programming keyboard.
- Allow the EFIS to warm to operating temperature.
- Use the ESC key to get to the blue mountain System Set Up.
- Use the 'tab' key to get to the appropriate Airspeed (ASI) or Altimeter page.
- Press 'ENTER' to unlock the page.
- Connect the pitot static equipment.
- A normal pitot static check will calibrate from -1000 feet to the service ceiling of your aircraft.

- On the altimeter calibration page the top line shows an “AD” value as well as a display value. You’ll need to pay attention to the window labeled AD. This count will change for every altitude value generated by the avionics technician and it will need to be recorded. We recommend recording this information on paper first and transferring to the calibration array later.
- The avionics tech will generate an altitude with the PS equipment, let’s say 1000 feet. Let the PS equipment stabilize and the ad counts stabilize. AD counts may move a couple of points due to its sensitivity. Once these numbers have stabilized record the altitude number with the corresponding AD number.
- The avionics tech will now move to the next altitude let’s say 2000 feet, allow the numbers to stabilize and record the new AD number with the new altitude.
- Repeat this process until there is enough data to complete the array.
- Take the recorded information and enter it into the calibration array and you will have new data.
- You can use the ESC key to exit this process.