

GEN - IV TWO AIR PUMP FLOW METER MANUAL

The principal unit of this flow meter is an extremely efficient miniature air pump powered by a rechargeable 3 cell 1300-1500 mAh, Lipo Battery pack whose output to power the air pump is controlled by a very accurate voltage regulator which produces a steady, even volume of air. The regulator is preset to 5 Volt. The flow meter is mounted in a sturdy, hinged wooden box for ease of use. This flow meter does not need calibration. The dial gauge is an aneroid, the same as used in blood pressure monitors. The kit includes a LIPO charger-balancer and a LIPO battery monitor.

The LIPO charger-balancer should to be connected to DC 12-14 V, 1.2. A power supply (not included) or to a starter 12V battery.

The new flow meter design is targeted for use on big motors. In order to get more air flow, the regulator can be set to 6 Volt and air flow will increase by 40%

COMMON USES

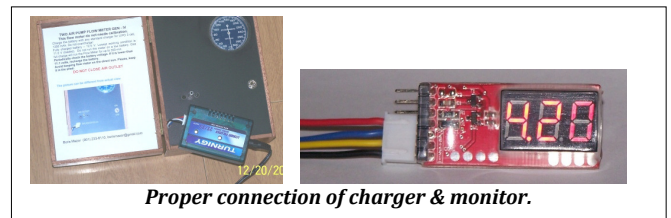
This flow meter will help you to preset the needle on your engine carburetor and also to check the range of adjustment for a third channel needle if your boat is so equipped. Settings vary from one carburetor to another depending on engine, prop, boat, weather conditions, type of fuel & other conditions

IMPORTANT: Keep flow meter out of direct sunlight.

The flow meter is your tool, but not Boss. Your experience is priceless. Trust you experience and keep records of what you are doing. **The Flow Meter is sensitive to atmospheric pressure, air density, temperature and humidity. The same position of the needle may give a different reading depending on current air condition. You must adjust the needle to compensate. It wont be 100% right, but very close.**

HOW TO USE THIS METER

- 1) **Check the condition of battery using battery monitor on BALANCER PLUG. Fully charged battery is 12.4-12.6 V Lowest working condition is 11.1 V (loaded). Use the monitor to assure that flow meter will work properly. Do not close air outlet or clamp outlet tubing.**
- 2) Connect tubing to fuel inlet on carburetor. Open the throttle 75% or more.
- 3) The Flow Meter gauge will now give you a reading of the current needle setting achieved by running your boat. Mark down this reading. This reading now becomes your base for future needle settings.
- 4) The next time you want to run your boat – just hook up the meter to the carburetor & adjust the needle to your previously marked base setting. Your engine will then run exactly as before when you established your base setting all other things being equal.
- 5) If you make any other needle adjustments to achieve better performance of your engine, you obviously have changed your base setting & you will need to take and record this new base reading.



WARRANTIES

I personally designed, made and tested this flow meter.

Full warranty for 1 year from date of purchase.

It is the buyer's responsibility to ship the unit back to me for any repairs. If upon inspection the unit is deemed defective and not damaged by misuse, I will either repair or replace the defective part.

Please Call Before Shipping: 901-233-6110 (24/7)

The Battery pack does not carry any warranty. You can order a replacement battery from:

http://www.hobbycity.com/hobbycity/store/uh_viewItem.asp?idProduct=9787

This unit has been designed to give you many hours of enjoyable use when properly maintained and used according to instruction. It should be obvious to the user that you can also check for fuel system leaks and/or water system leaks by just applying the tube to the proper systems.

Enjoy and good luck. Any comments are appreciated. Thanks.

Boris Mazor

4583 Janice Circle Memphis, TN 38122

borismazor@gmail.com