



This is my DIY (Do It Yourself) slanted u-tube manometer. The water tubes are slanted at 30 degrees in order to double the scale reading for the difference in water surface heights (inches of water.) It works very well. I get accurate and repeatable readings. I can read to about +/- 0.05 inches of water.



I use a level on the base when setting up to ensure accuracy.



The scale I used has been remarked from plus 2 to minus 3 for ease of reading. The back edge of the scale is a snug fit in a slot in the wood frame so the scale can be slid up or down to align the scales zero-reading-point with the static water level in the tube. The tube has about a $\frac{5}{16}$ inch (8 mm) inside diameter.



The regulator mouthpiece adapter is made from PVC tubing and connects the regulator to the upper end of the water u-tube with some vinyl tubing and a few fitting bits.