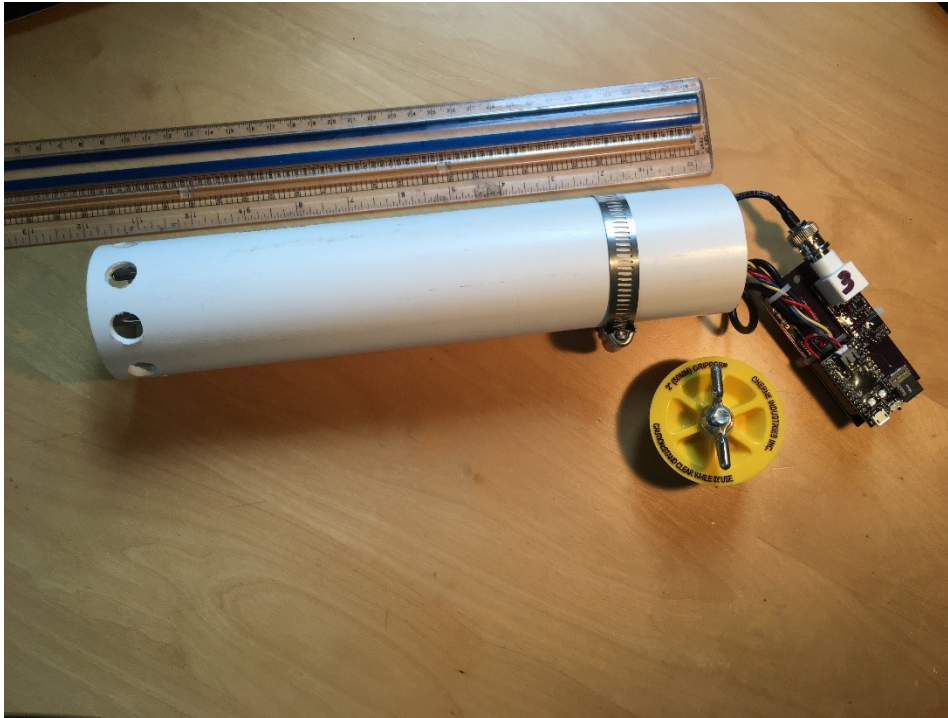


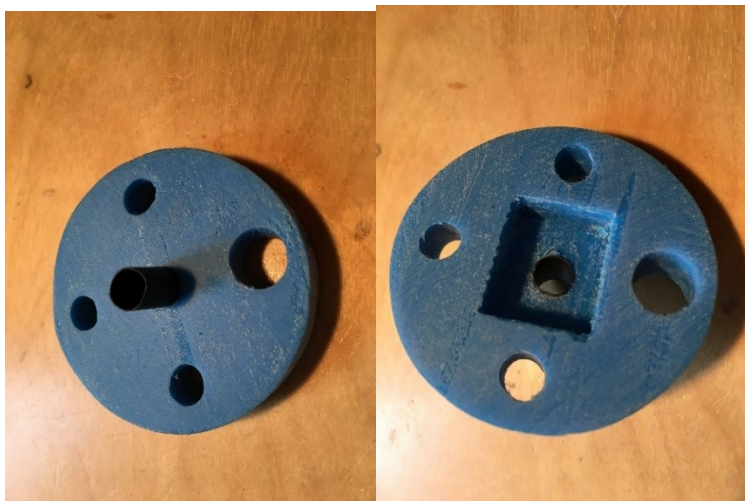
OpenCTD with Conduino and K1.0 Probe

Here we show how to get it all into a 11" long 2" PVC pipe.

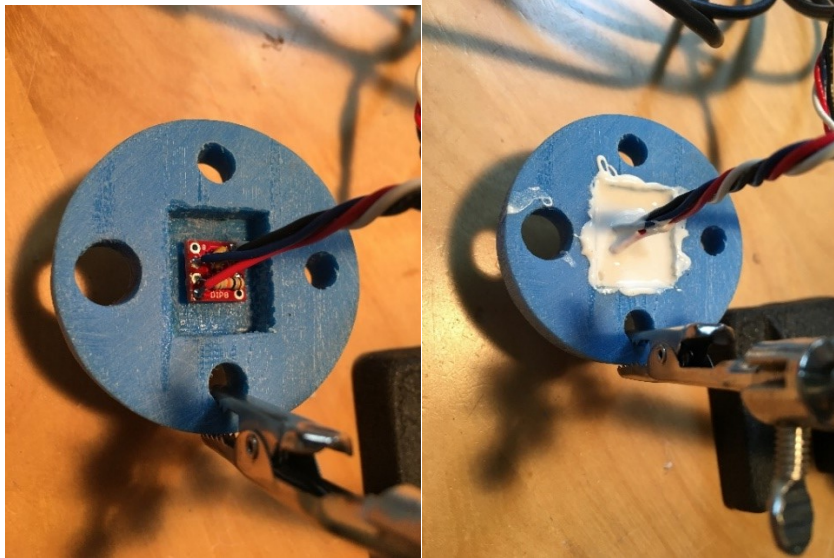


First, 3D print the plug. Make it solid, and then use a drill if necessary to open up the holes a little bit to fit the various sensors.

Use a ¼" shrink tube (or other) to protect the pressure sensor during the epoxy potting process. Or just be very careful not to get epoxy on the sensor's membrane.



Secure the pressure sensor PCB in place (use clamps or something), and fill the void which is on the inside of the plug with Marine Epoxy.



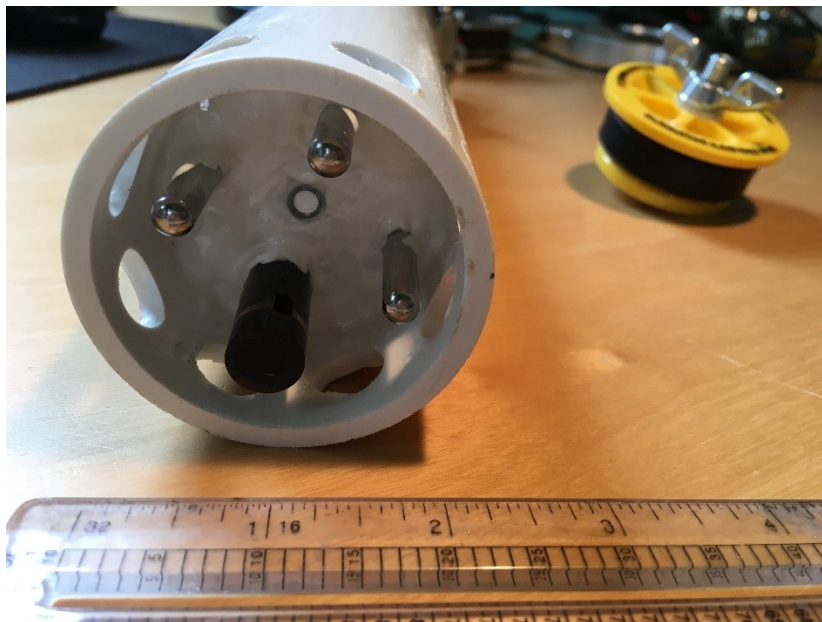
Next, fit the other sensors and use a little bit of Marine Epoxy to tack them in place, let that dry, and then coat the outside with a generous helping of Epoxy.



A nice way to handle the excess coax wire from the conductivity probe is to wrap it around the probe. Do this before you epoxy the base plate into the pipe.



Epoxy the base plate into the pipe. Then go back and add epoxy so there is a nice seal around the exterior edge.



Cram the circuit board and the wires in the pipe. A twist of the circuit board is helpful to discover a fit. Attach the Gripper Plug and you're ready to go. A hose clamp is a nice way to attach a cable to the probe.