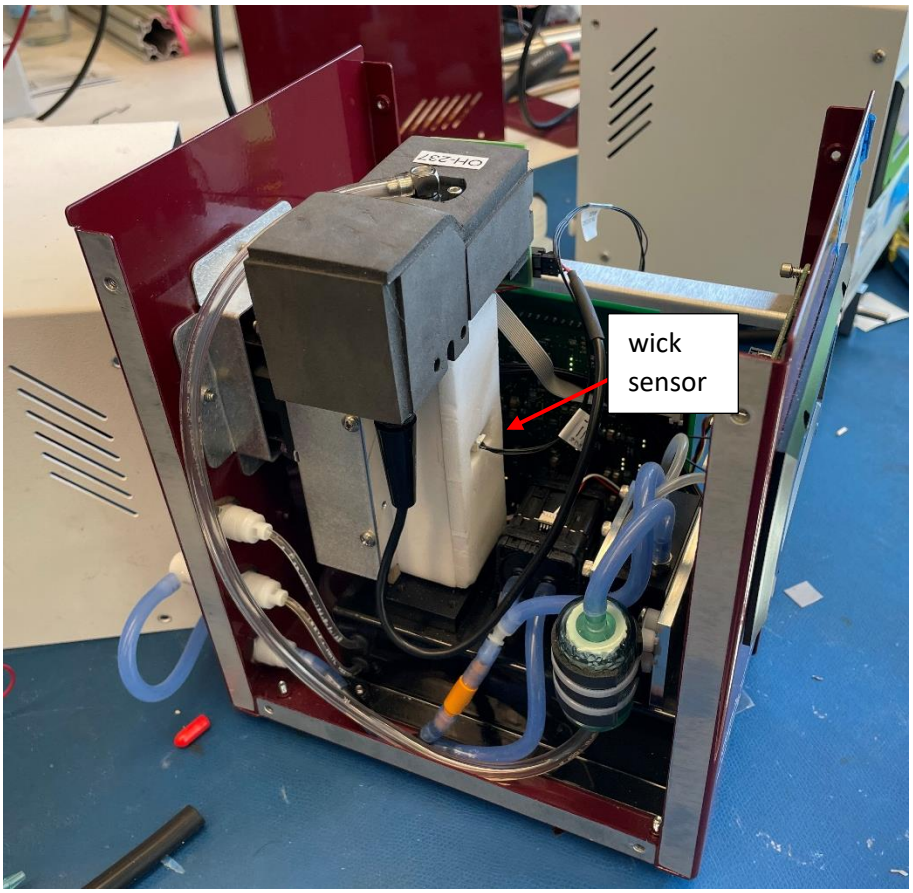
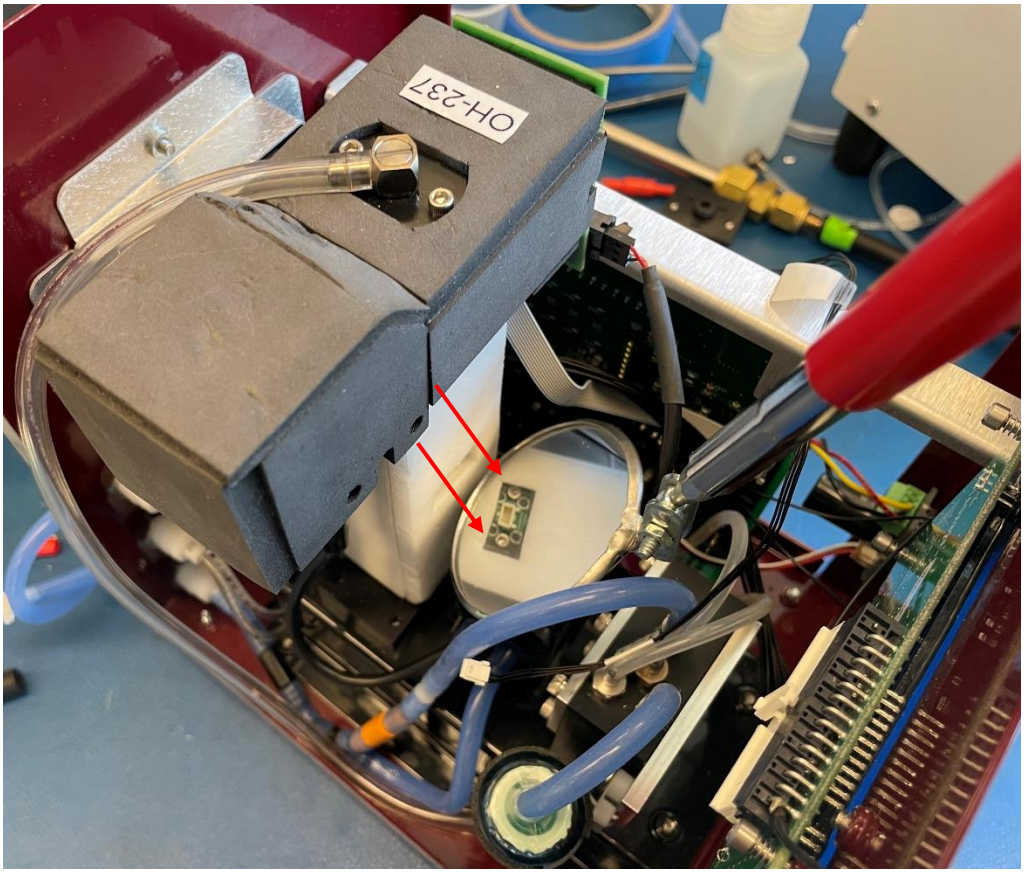
Inspecting the MAGIC 250 Wick Sensor

Aerosol Dynamics Inc., Steven Spielman 2023-03-24

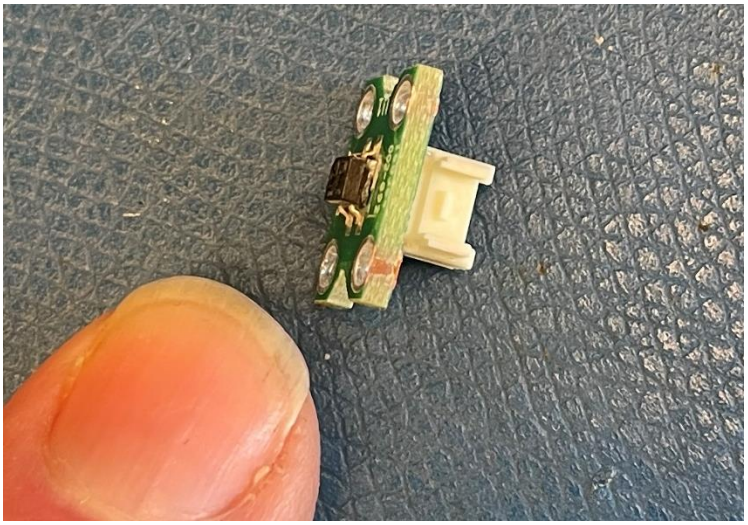
This document describes the location of the wick sensor and shows how a normal sensor should look.



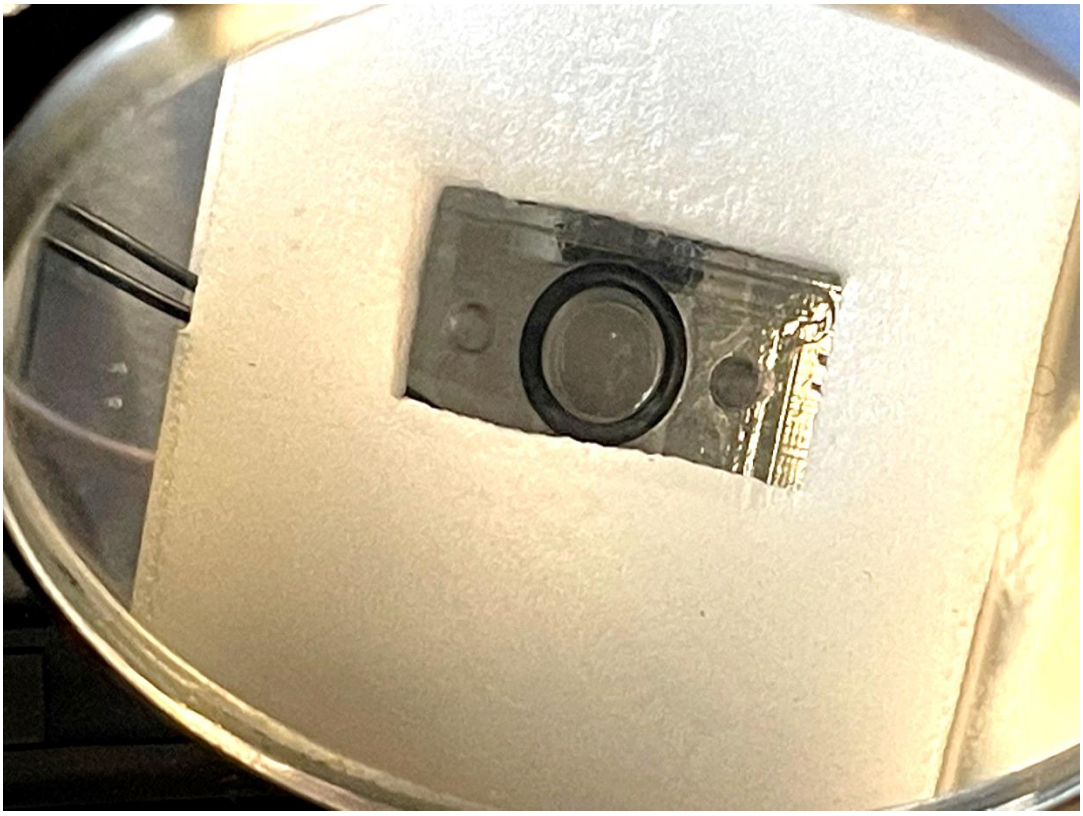
Location of the wick sensor PCB. The cable, plug, and PCB header protrude slightly from the foam insulation of the growth tube. You can disconnect the cable by squeezing the plug housing and pulling it gently away from the body.



This viewing mirror shows the circuit board mounted to the growth tube. The #2-56 mounting screws are indicated by red arrows here. They can be manipulated by a 5/64” hex driver.



Removing the screws will allow the board to come free of the growth tube. In some units, the mounting screws fit into slots as in this photo. In others, there are through-holes.



This is a view, via a mirror, of the where the Wick Sensor PCB sits. There should be an o-ring, seated inside a raised wall. The o-ring may have stuck to the PCB. The surface bounded by the o-ring should be clean and free of water.