

FAQs for the Hydrogen Peroxide Vapor (HPV) Analyzer

Q: What needs to change or be configured on the HPV ClearView db analyzer when installing and testing a new 50cm G-SST probe from the currently installed shorter 28cm optical path G-SST probe?

A: Since the new 50 cm probe and the currently installed older style (28 cm) probe use the same sanitary flange size and are about the same physical length, you need to follow the setup changes as described in Appendix B of the HPV ClearView db manual to correct for the increase in optical pathlength. See Figure 1 below.

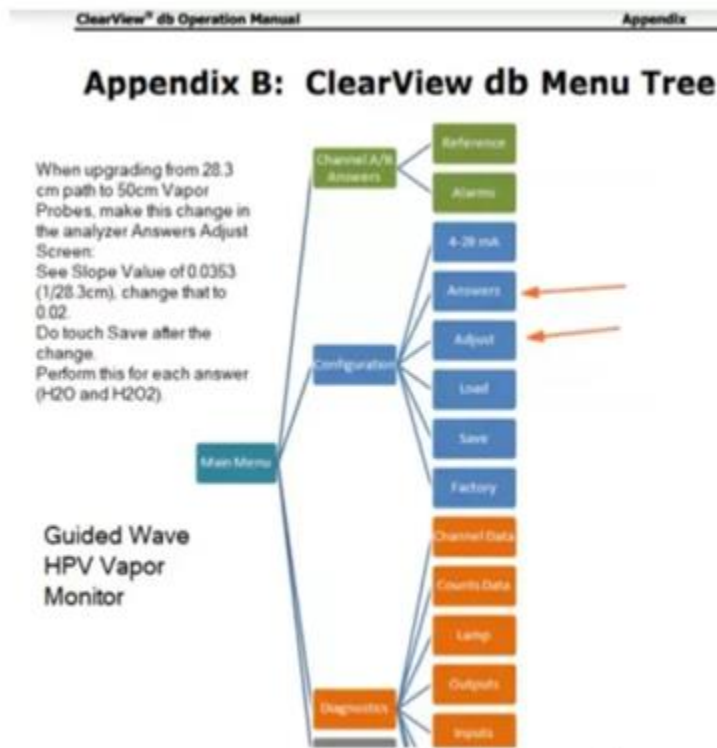


Figure 1: Appendix B ClearView db Menu Tree

Follow these steps when upgrading from 28.3 cm path to 50cm G-SST Vapor probes, make this change in the analyzer Answers Adjust Screen.

- See Slope Value of 0.0353 (1/28.3cm). Change that to 0.02
- Select SAVE after the change
- Perform this for EACH answer (H₂O) and H₂O₂)

What needs to change is a slope value in computing the answer for each component. The slope value is a scaling function of 1/pathlength in cm.

Go to the Answer Adjust Page and see the location where the current slope exists. For 28.3cm path probe it should be 0.0353. Change that value to 0.02 that corresponds to 1/50.

Select SAVE then exit.

You are now ready to operate with the new upgraded VHP GSST Vapor Probes.

Q: Is there a way to easily test the replacement 50cm probe for correct operation once installed on the HPV ClearView db Analyzer? (other than running a full cycle and just monitoring)

A: To easily test the new 50 cm G-SST probe once connected to the HPV ClearView db analyzer, note the water vapor at ambient. Then put the chamber in a vacuum mode. The moisture level should drop as the chamber is evacuated.

Alternatively, the 50cm vapor G-SST probe can be relocated into a humidity chamber, then inject a certain level of moisture and read once the humidity has stabilized.