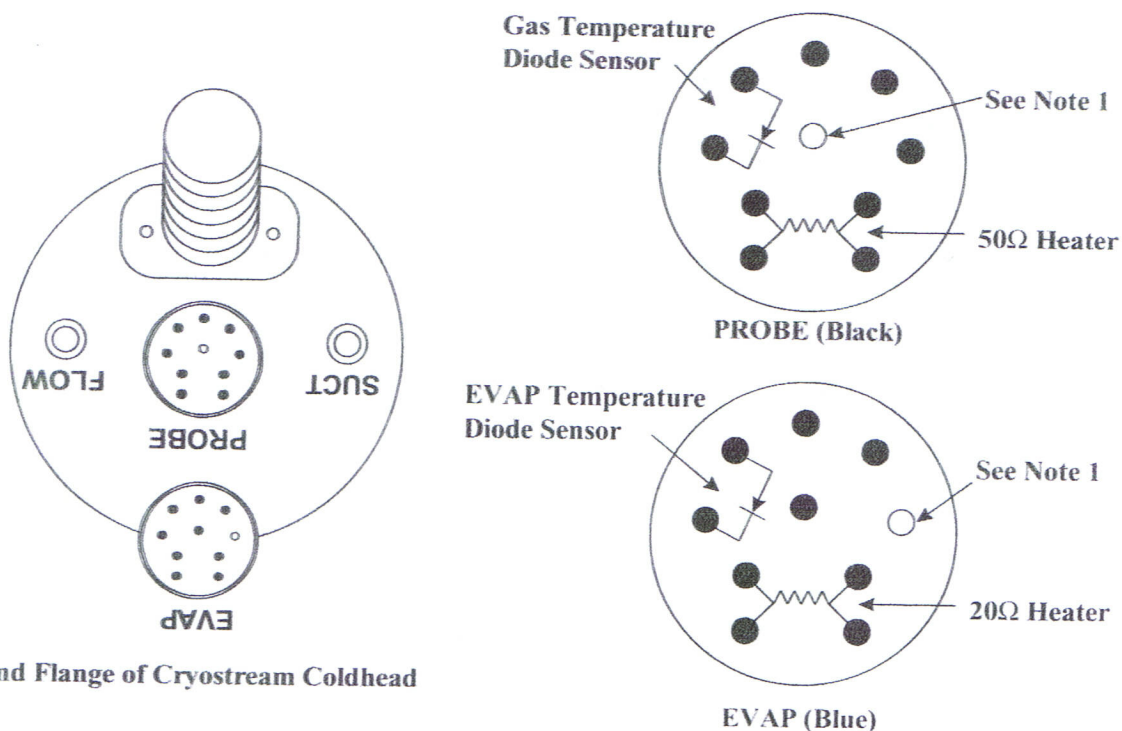




Tech Note 9508 Cryostream Cooler Coldhead – Electrical Pin Outs



End Flange of Cryostream Coldhead

Note 1

ONE EACH OF THE CONNECTORS ONE PIN IS REMOVED AND ONE SOCKET ON EACH PLUG IS BLANKED OFF. THIS IS TO AVOID INCORRECT CONNECTION.

Electrical Checks

IF POSSIBLE, USE A DIGITAL MULTIMETER (DMM)

1. Electrical Insulation – Using the resistance range of the DMM, check that the Sensor Diode and Heater are insulated ($>20\text{m}\Omega$) from the metal flange of the Cryostream Coldhead and from each other.
2. Heaters – Using the resistance range of the DMM, check the resistance of the Heaters. The values are indicated in the diagram above.



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3. Temperature Sensors – These are silicon diode sensors and are best measured using the 'Diode Test' range of the Digital Multimeter. **DO NOT EXCEED IMA TEST CURRENT.** The forward voltage at room temperature is approximately 0.7 volts for the Gas Temperature Diode Sensor and approximately 0.6 volts for the EVAP Temperature Diode Sensor.