

How to Test the Calibration of a Sample Temperature Probe

NUMBER	INSP/TESTS	CONDITIONS AND REQUIREMENTS	
1.00	SET UP	Unit to be connected to proper power supply.	
1.01		Unit to be mounted on a Freeze Dry Base Unit which is connected to a 190 LPM vacuum pump.	
1.02		Ambient temperature to be 70°F to 75°F.	THERMOMETER
1.03		Secure a temperature probe to the block on the bottom of each shelf.	
1.04		Freeze Dry Base Unit refrigeration to be operating in MANUAL MODE with a collector temperature below –40°C.	BASE UNIT GAUGE
1.05		Connect RS232 printer to port	PRINTER
2.00	TEMPERATURE SENSORS	Check calibration of the temperature sensors by placing them in an ice bath, which is then agitated. The display on the unit for each probe must read –1°C to 1°C.	UNIT DISPLAY
3.00	CONTROLLER OPERATION	Turn the unit POWER switch ON. The display will become active. Temperature will display at positions where probes are plugged in. Other positions will be blank. If no probes are plugged in, display will show TEMP SENSOR ERROR.	VISUAL
3.01		Plug in all three standard probes and shelves, and two accessory probes and shelves. Press the INCREASE/DECREASE buttons and the set point temperature will increase or decrease.	VISUAL