

# THERMAL CYCLE TESTING

Sensor Model: CX-1050-AA  
Sensor Type: Cernox Resistor

Serial Number: X38609

This sensor was tested for repeatability through rapid thermal cycles from room temperature into liquid helium. During this test, the following four lead resistance values were recorded:

Room Temperature:	63.1 $\Omega$
Liquid Nitrogen:	193 $\Omega$
Liquid Helium:	2342 $\Omega$

The nitrogen and helium values were recorded in OPEN dewars, so precision comparisons with calibration values or other dip test values should not be made.

## Recommended Operating Parameters:

For sensors calibrated by LSCI the current to the sensor is adjusted to maintain the sensor output voltage or power at the values listed below. In order to minimize possible self-heating errors, we suggest that these same guidelines be followed in using the sensor:

Above 1K:	1 to 3 mV
0.1 to 1K:	0.1 mV
Below 0.1K:	0.03 mV

## Lead Identification:

White:	I+ and V+
Black:	I- and V-

To avoid possible damage to the sensor, do not exceed 1 Volt and do not exceed 100 mA current.

