



Figure 1.

1. Tools Used:
 - a. Thermocouple Calibration Device, Multi-meter, DC power supply, 9V battery, External K-type Thermocouple.
2. Preparation for Testing:
 - a. Install the 9V battery, connect the K-type sensor with the 191AD, then turn the unit "on" and set aside for 30 minutes.
 - b. Turn "on" TC Calibrator, select °C type and K-type sensor, turn on temperature compensate and set aside for 30 minutes

3. Testing:
 - a. Attach the output probes of the TC calibrator to the Tip Temperature Monitor's posts (red probe to positive/Red post, black probe to negative/blue post)
 - b. Set the temperature of the TC Calibrator 0 °C then adjust the low-end potentiometer of monitor to 0 °C. See Figure 2.
 - c. Set the temperature of TC Calibrator 450 °C then adjust the low-end potentiometer of monitor to 450 °C ±3 °C. See Figure 2.
 - d. Repeat the above steps until meets the requirement.



Figure 2.

°C / °F Conversion Table

°C	°F	°C	°F
1°C	33.8°F	2°C	35.6°F
3°C	37.4°F	4°C	39.2°F
5°C	41°F	6°C	42.8°F
7°C	44.6°F	8°C	46.4°F
9°C	48.2°F	10°C	50°F
11°C	51.8°F	12°C	53.6°F
13°C	55.4°F	14°C	57.2°F
15°C	59°F	16°C	60.8°F
17°C	62.6°F	18°C	64.4°F
19°C	66.2°F	20°C	68°F
21°C	69.8°F	22°C	71.6°F
23°C	73.4°F	24°C	75.2°F
25°C	77°F	26°C	78.8°F
27°C	80.6°F	28°C	82.4°F
29°C	84.2°F	30°C	86°F
31°C	87.8°F	32°C	89.6°F
33°C	91.4°F	34°C	93.2°F
35°C	95°F	36°C	96.8°F
37°C	98.6°F	38°C	100.4°F
39°C	102.2°F	40°C	104°F
41°C	105.8°F	42°C	107.6°F
43°C	109.4°F	44°C	111.2°F
45°C	113°F	50°C	122°F
100°C	212°F	200°C	392°F
300°C	572°F	400°C	752°F
450°C	842°F	500°C	932°F
600°C	1112°F	700°C	1292°F