Tip Temperature Monitor (P/N 8001-0087-P1) Calibration Procedure (Rev A3-15)

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



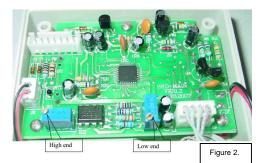
Figure 1

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.



°C / °F Conversion Table

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