



- VT-read** measured sensor temperature
- VT-set** current temperature setpoint
- VT-min** minimum temperature setpoint
- VT-max** maximum temperature setpoint

Some ballpark numbers for the sensor temperature, applicable to Weller MLR-21. setpoints read a little higher.

- 0.107V at 20°C
- 0.119V at 50°C
- 0.140V at 100°C
- 0.159V at 150°C
- 0.179V at 200°C
- 0.198V at 250°C
- 0.216V at 300°C
- 0.232V at 350°C
- 0.250V at 400°C
- 0.267V at 450°C
- 0.284V at 500°C

CALIBRATION AND TROUBLESHOOTING

decrease R6 for a faster heat-up with possible overshoot of the setpoint.
 increase R6 for a more gentle heat-up without overshoot.

decrease R11 by up to 100k for a faster blink rate.
 increase R11 by up to 100k for an even slower blink rate.

OPTIMIZING AND FINE TUNING

electrolytic capacitor voltages are recommended minimum, higher rated parts are more robust, so feel free to use ie. 220µF 63V if space permits

as an alternative to the Weller WECP-20. meant to be used with a beefy SMPS.

lasse@preamp.org

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