

Team 31
Dryer Diagnostic Unit

Power Module (/ 5)

(/ 5) Power module outputs steady voltage.

Sensor Module (/ 25)

(/ 5) The amplifier outputs a voltage of 0.2 V when the thermocouple is at room temperature.

(/ 5) The amplifier's output voltage increases by 100 mV when temperature increases by 10 °C.

(/ 10) The temperature displayed by the team's product and the temperature displayed by a commercial thermometer are within 5 °C difference. (If this is satisfied, the previous two requirements are satisfied.)

(/ 5) The team's product detects temperature ranging from 10 °C to 150 °C.

Control Module (/ 10)

(/ 5) The temperature readings are displayed on a computer, and the temperature readings are reasonable.

(/ 5) The wireless transmitter sends data to the database.

Software Module (/ 10)

(/ 5) The app refreshes temperature data once per second.

(/ 5) The app retrieves temperature data from the database.

Total: / 50