

Functional requirements

1. Gather thermocouple readings from sensors
2. Gather flow-rate reading from the flow-rate sensors
3. Transmit sensor readings
4. Store thermocouple readings
5. Store flow-rate readings
6. Calculate the power from stored sensor data
7. Visualisation of power output for each antenna
8. Have secure logon for raspberry pi's
9. Have a secure login system to database
10. Require sign in to Grafana dashboard

Non-functional requirements

1. Simulate thermocouples
2. Have a test harness
3. Alerts for changes in power/temperature/no connection

Use Cases

1. View all stored data readings for individual antenna
2. Monitor power readings for all antennas on site
3. View alerts
4. Acknowledge alerts
5. login to all systems