CO2 pH Control and Pump High Temp SD Wiring Diagram CO₂ Valve ESP32 Power Pump Relay 3.3V GPIO5 GND Manual Reset (GPIO14) Ground GPIO14 GPIO2 CO2 Valve **5**V 5V Supply GPIO34 pH Sensor Ground **GND** GPIO36 Thermistor Note: Either 3.3V or 5V can be used for power - both are not required. **Thermistor** Set supply voltage in web interface. Circuit Note: Temperature control also has a web page reset button that doesn't require physical wiring Physical pH Sensor Reset Button Ensure proper isolation between high & low voltage circuits for safety. Use waterproof enclosures for pool environment. WIRING COLOR GUIDE CO2 Valve (GPIO2) pH Sensor (GPIO34) Thermistor (GPIO36) Ground Pump Relay (GPIO5) Manual Reset Button (GPIO14) 3.3V/5V Power