Monotub Circuit Schematic Power Actuators Female plug (5.5mm x 2.5mm) to be connected to the male 5VDC 1 (Control CO2 and humidity) plug of a 5VDC 2.5A wall adapter Female Plug Connector Sensor GND (Measures CO2, temperature, and humidity) DC-112 Mechanical Relay JQC3F-03VDC-C RST X GPI04 VDD VSS GPI017 GPI05 SCD40 Gas Sensor 9 GPI015 GPI06/I2C_SDA Humidifier ← GPI023 GPI07/I2C_SCI GP1022 GPI00 GPI01 **GPI021** 20 GPI020 GPI08 19 GPI019 GPI010 СОМ DC-GPI018 **GPI011** GND GPIO9 GPI02 GP103 3 3 GPI013/USB_D+ Mechanical Relay JQC3F-03VDC-C GPI012/USB_D-I2C notes: - GPI06 and GPI07 are designated for I2C. - Internal pull-up resistors for I2C to be enabled when GPIO6 and GPIO7 are initialised. ESP32-C6 DevKitC-1 There should only be one GND for all GND components to avoid ground loops (which will affect signal and damage components) Mechanical relay notes: - All actuators connected to the NO (normally opened) terminal of the mechanical relay. - Mechanical relay switch closes with 3.3V input signal.