

Actuator	Pi Pin (Physical)	Pi Pin (BCM)	Function	Notes					
FAN (Relay 1)	Pin 11	GPIO 17	Digital Output	Control pin for the fan relay.					
MIST (Relay 2)	Pin 13	GPIO 27	Digital Output	Control pin for the humidifier/mister relay.					
LIGHT (Relay 3)	Pin 15	GPIO 22	Digital Output	Control pin for the light relay.					
HEATER (Relay 4)	Pin 16	GPIO 23	Digital Output	Control pin for the optional heater relay.					
Relay VCC		5V	Power	Most relays require 5V power (JD-VCC/VCC).					
Relay GND		GND	Ground	Connect to the relay board's GND.					
Relay Logic		3.3V	Logic Power	If your relay board uses separate logic power, connect the low-voltage VCC pin to the Pi's 3.3V pin.					
DHT22 Pin	Pi Pin (Physical)	Pi Pin (BCM)	Function	Notes					
VCC		3.3V	Power						
Data	Pin 7	GPIO 4	Data Line	Requires a 10 kΩ pull-up resistor between this pin and VCC.					
GND		GND	Ground	Connect to a common ground pin.					
Sensor Pin	Pi Pin (Physical)	Pi Pin (BCM)	Function	Notes					
SDA	Pin 3	GPIO 2	I ² C Data Line	Connect to SDA on both sensors/boards.					
SCL	Pin 5	GPIO 3	I ² C Clock Line	Connect to SCL on both sensors/boards.					
VCC/VDD		3.3V	Power	Check sensor's required voltage (most modern I ² C boards are 3.3V-compatible or include a regulator).					
GND		GND	Ground	Connect to a common ground pin.					