DHT22 Wiring Guide for Raspberry Pi (with Breadboard)

1■■ DHT22 Placement

Place the DHT22 so that its 4 pins sit in the breadboard at E10, E11, E12, E13. The flat side with the holes should face you. The pins from left to right are: 1) VCC (Power), 2) DATA (Signal), 3) NC (Not Connected), 4) GND (Ground).

2■■ Wiring Connections

• VCC (Pin 1) → A10 → Red wire → Raspberry Pi Pin 1 (3.3V)
• DATA (Pin 2) → A11 → Orange wire → Raspberry Pi Pin 7 (GPIO 4)
• NC (Pin 3) → A12 → Not used
• GND (Pin 4) → A13 → Brown wire → Raspberry Pi Pin 6 (GND)

3■■ Resistor (10 kΩ)

Use a 10 kΩ resistor (brown-black-orange-gold). Connect one leg of the resistor to B10 (VCC) and the other leg to B11 (DATA). This connects VCC to DATA for stable readings.

4■■ Python Code Setup

In your Python code, always use:

```
import board
import adafruit_dht

dht_device = adafruit_dht.DHT22(board.D4)
```

5■■ Summary

• Red → 3.3V (Pin 1)
• Orange → GPIO 4 (Pin 7)
• Brown → GND (Pin 6)
• 10 kΩ resistor → between DHT22 Pin 1 (VCC) and Pin 2 (DATA)