

AgriSence2.0 Connections table

Component	Pin Name	ESP32 Pin	Description / Function
DHT22 Sensor	VCC	3.3 V	Power supply for the sensor
	GND	GND	Ground connection
	DATA	GPIO 4	Digital pin for temperature & humidity data
Capacitive Soil Moisture Sensor	VCC	3.3 V	Power supply for the sensor
	GND	GND	Ground connection
	AOUT	GPIO 34	Analog pin to read soil moisture value
Relay Module	VCC	5 V	Power for relay board
	GND	GND	Common ground
	IN	GPIO 26	Control signal for water pump
Water Pump	+	External 12 V (from relay NO contact)	Positive terminal from external supply
	-	GND (common with relay COM)	Ground of external power
LCD 16×2 (with I2C Module)	VCC	5 V	Power supply to LCD
	GND	GND	Ground
	SDA	GPIO 21	I ² C data line
	SCL	GPIO 22	I ² C clock line

