

Bodenfeuchtesensor Hygrometer Modul V1.2 Datenblatt



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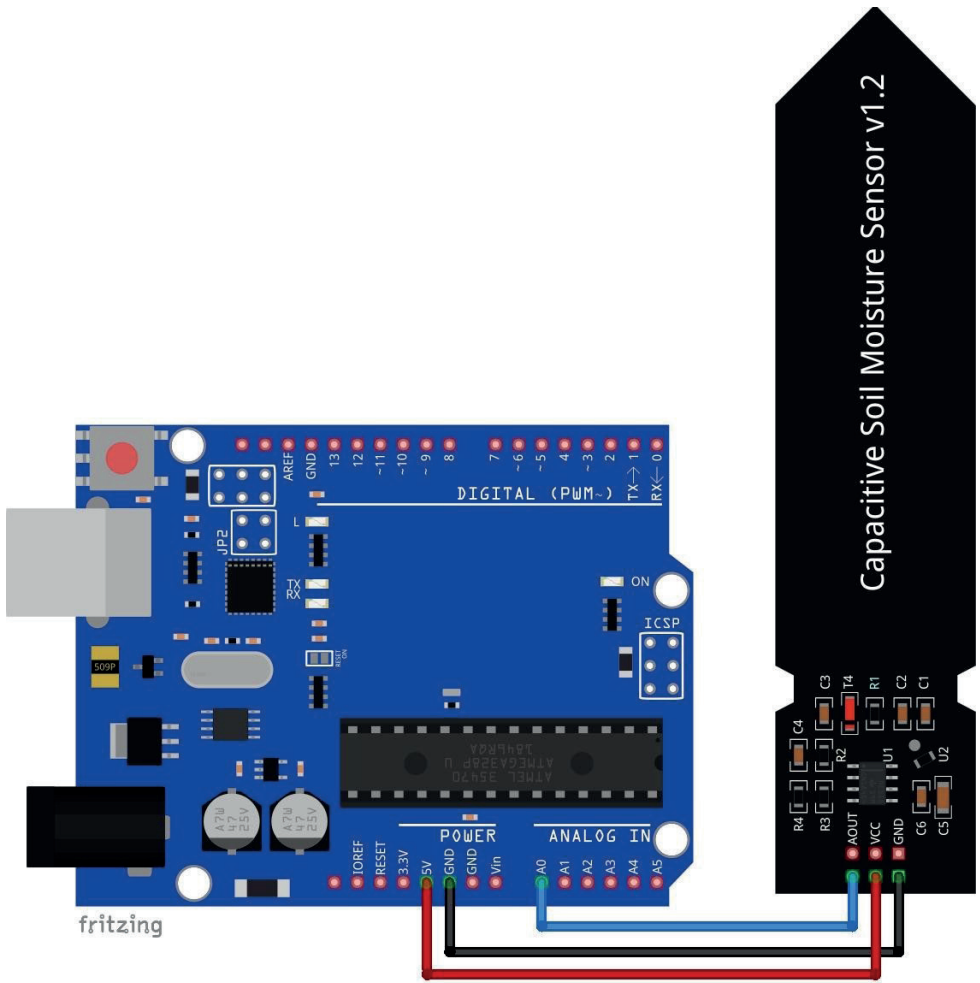
1. Specifications

Power Supply Voltage	5V
Output Voltage	Analog
Dimensions	22mm x 97mm x 9mm, with 3 wire Cable of 190mm

2. Pinout

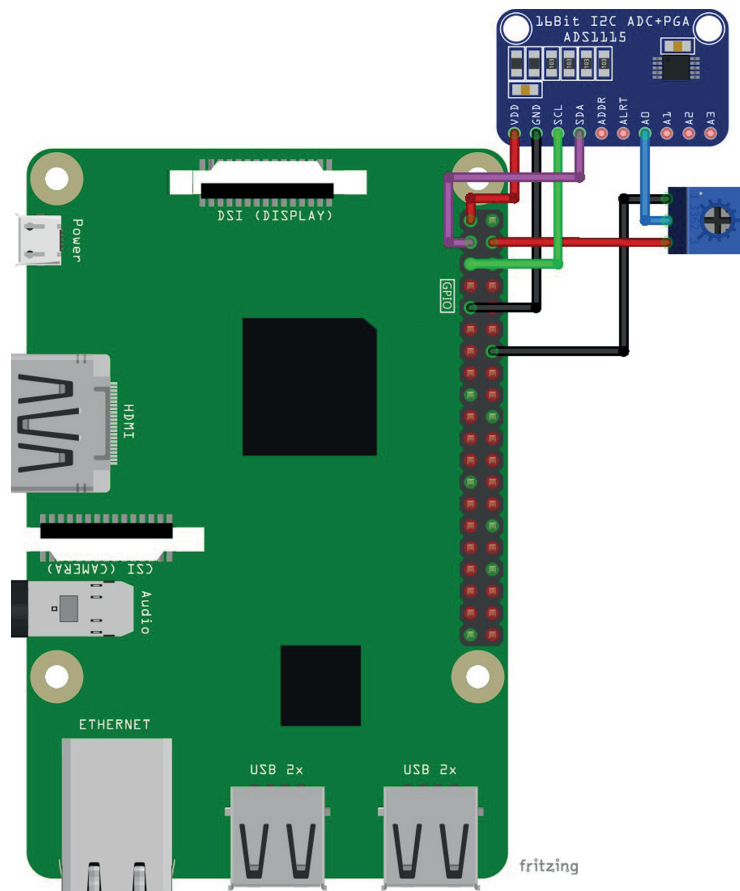


3. Connection Diagram



Module Pin	Microcontroller Pin	Wire Color
GND	GND	Black Wire
VCC	5V	Red Wire
AOUT	A0	Blue Wire

Connecting ADS1115 Module with Microcontroller compatible with Raspberry Pi:



ADS1115 Pin	Microcontroller Pin	Physical Pin	Wire Color
VDD	3V3	1	Red Wire
SDA	GPIO2	3	Purple Wire
SCL	GPIO3	5	Green Wire
GND	GND	9	Black Wire

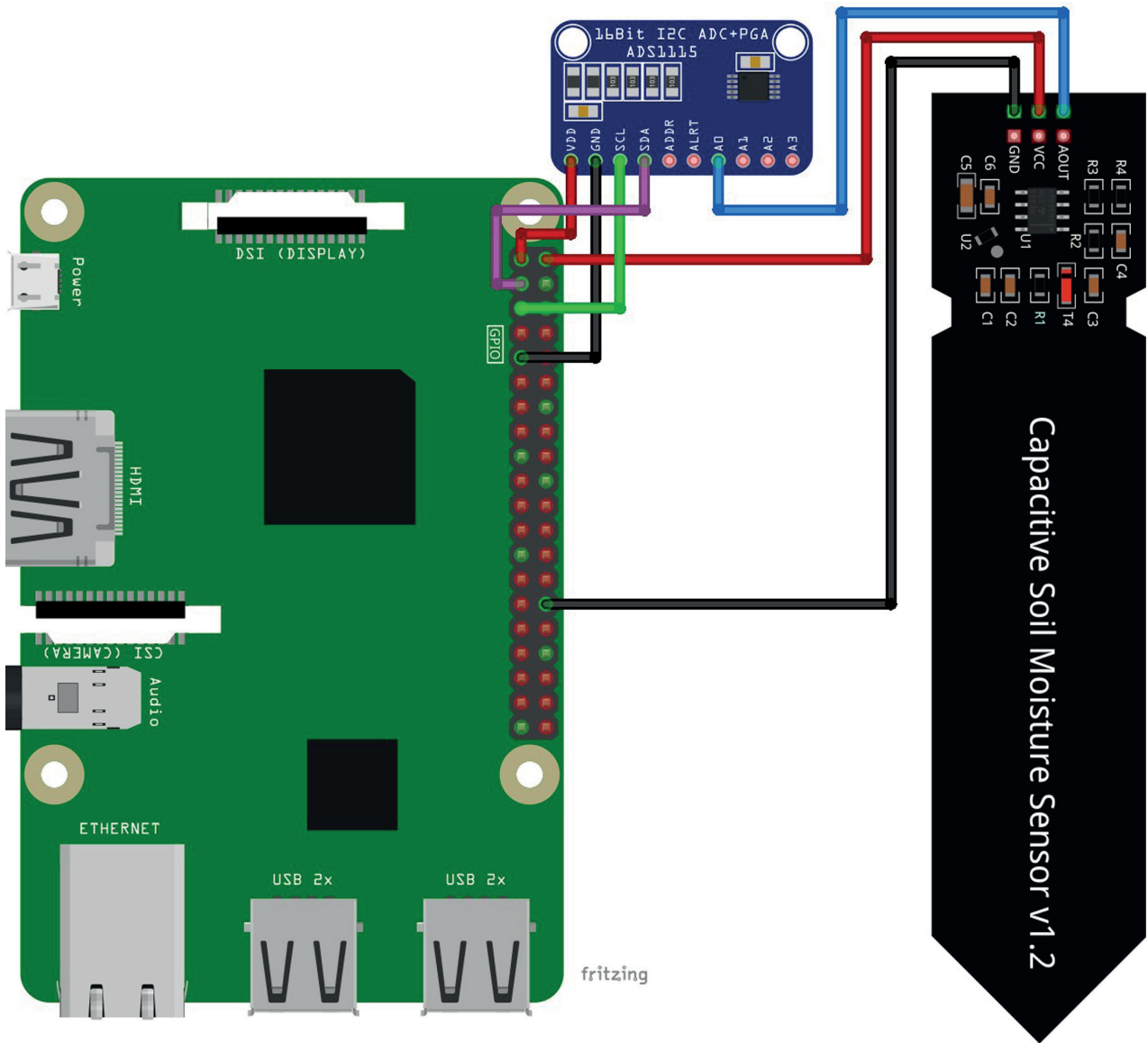
ADS1115 Pin	Potentiometer Pin	Wire Color
A0	Middle Pin	Blue Wire

Microcontroller Pin	Physical Pin	Potentiometer Pin	Wire Color
GND	14	Top Pin*	Black Wire
5V	4	Bottom Pin*	Orange Wire

Note:

*** Top pin of the potentiometer on this connection diagram.**

The potentiometer is used just as an example here. Later, the Soil Moisture Sensor Module is connected to the corresponding pins.



Microcontroller Pin	Physical Pin	ADS1115 Pin	Wire Color
3V3	1	VDD	Red Wire
GPIO2	3	SDA	Purple Wire
GPIO3	5	SCL	Green Wire
Ground	9	GND	Black Wire
Microcontroller Pin	Physical Pin	Module Pin	Wire Color
5V	2	VCC	Red Wire
Ground	30	GND	Black Wire
Module Pin	ADS1115 Pin	Wire Color	
AOUT	A0	Blue Wire	

Note:

In this set-up, both the analog and digital output pins of the Soil Moisture Sensor V1.2 module are used. The device called ADS1115 is used here as an external analog to digital converter (ADC), where the analog data is sent to the Microcontroller via the I²C interface.

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