



MAKER SOIL MOISTURE SENSOR

Datasheet



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1. BOARD LAYOUT & FUNCTION

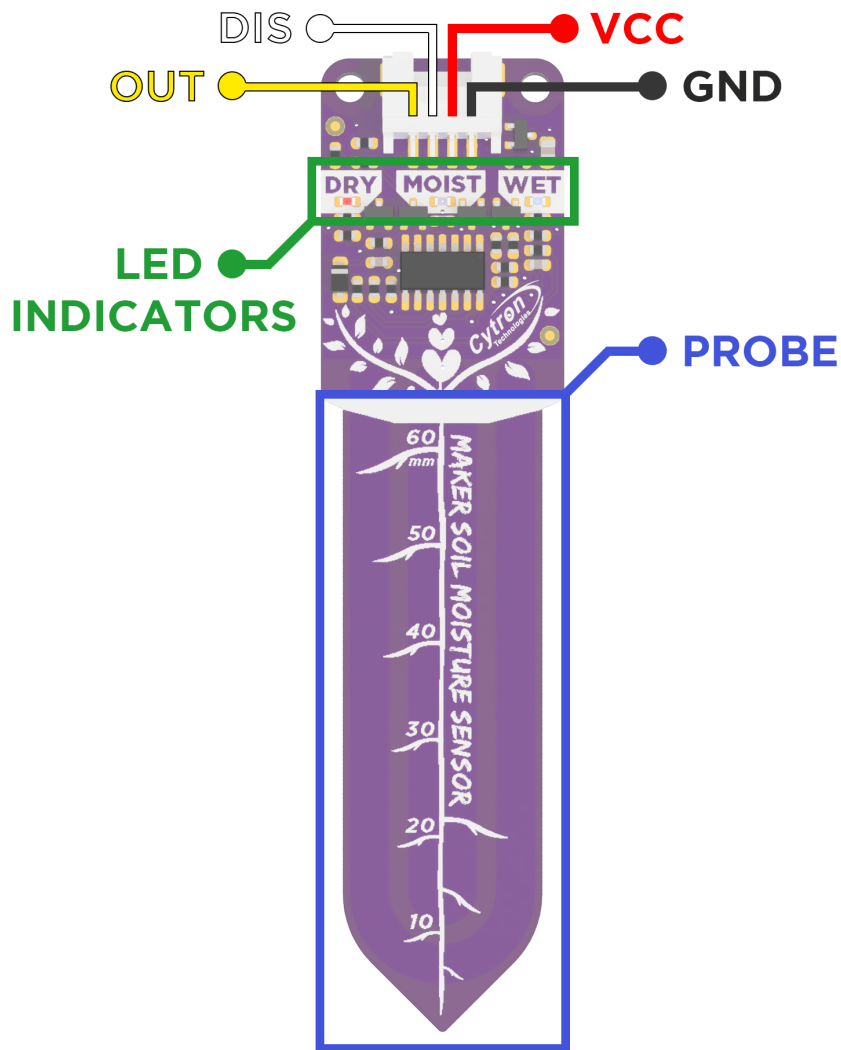


Figure 1: MAKER-SOIL-MOISTURE Board Functions

Function	Description
Grove Port	<ul style="list-style-type: none"> • GND: Ground. • VCC : Power input for the sensor. • DIS : Disable pin. HIGH signal disables the sensor. • OUT : Analog Output. Higher voltage = less moisture.
LED Indicators	Turns on depending on the value of the output. (See Table 2)
Probe	Capacitive probe used to detect the presence of water in soil.

Table 1: MAKER-SOIL-MOISTURE Board Functions

2. SPECIFICATIONS

No	Parameters	Min	Max	Unit	
1	VCC Voltage (VCC)	2.5	7.0	VDC	
2	Analog Output Voltage (OUT)	1.0	5.2	V	
3	Disable Pin Threshold Voltage (DIS)	VCC - 0.8	-	V	
4	LED Turn On Output Voltage @VCC = 3.3V	Blue (WET)	1.4	1.8	V
		Green (MOIST)	1.8	2.1	V
		Red (DRY)	2.1	2.3	V
5	LED Turn On Output Voltage @VCC = 5.0V	Blue (WET)	2.3	2.7	V
		Green (MOIST)	2.7	3.1	V
		Red (DRY)	3.1	3.6	V
6	Current Consumption	VCC = 3.3V	5.4	5.6	mA
		VCC = 5.0V	3.6	3.7	mA
7	Current Consumption (when Disabled)	VCC = 3.3V	80	140	μA
		VCC = 5.0V	140	180	μA

Table 2: MAKER-SOIL-MOISTURE Absolute Ratings

3. DIMENSION

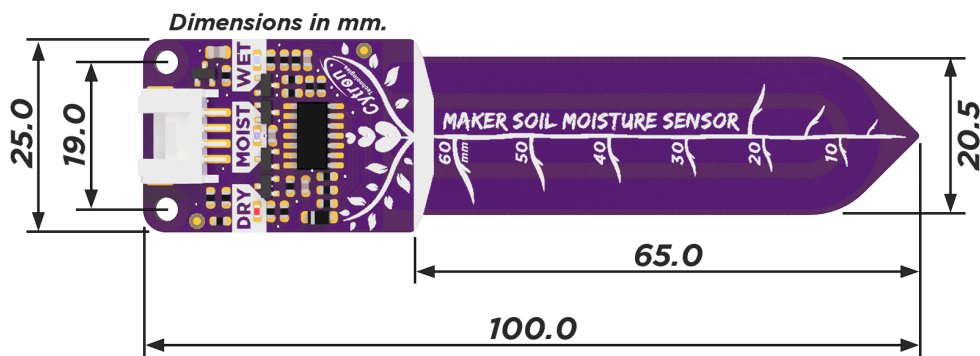


Figure 2: MAKER-SOIL-MOISTURE Dimension

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