

SOIL MOISTURE SENSOR

SMH-01

OVERVIEW

Simple and reliable sensor **SMH-01** defines the amount of plant available water by measuring the capillary pressure at the location of the sensor.

APPLICATION

- Irrigation controllers
- Smart Home systems
- Internet of Things applications

SENSOR SPECIFICATIONS

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|-----------------------------|--------------------------------------|
| • Supply voltage V_s : | $3.3V \div 5.0 V$ |
| • Output voltage V_o : | $0.3 * V_s$ |
| • Current consumption: | $< 5 \text{ mA}$ |
| • Temperature range: | $-20 \div 60 \text{ }^\circ\text{C}$ |
| • Dimensions: | 60x24x14 mm |
| • Cable length: | 90 mm |
| • IP68 waterproof enclosure | |



INSTALLATION AND TYPICAL APPLICATION CIRCUIT

Place the sensor in the soil at the specified depth. Compact the soil where the sensor is installed. Watering the soil at location of the sensor to improve contact the surface of the sensor to the soil.

