



LAKSHMI ENGINEERING WORKS

Mfg & Supp of: Soil, Cement and Concrete Testing Equipment, Survey, Drawing, Hydrological, Metrological, Geological, Scientific Instruments (**All type of Water Current Meters**)
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SUBJECT: PORTFOLIO OF M/s LAKSHMI ENGINEERING WORKS

Introducing ourselves as registered makers and suppliers of various varieties of **hydrological, metrological, geological, river gauging, scientific instruments** gives us great pleasure.

With their complete satisfaction, we are providing these things to all government and semi-government departments. In our workshop, we also perform the repairs on these instruments.

All of our instruments come with a one-year warranty from the date of supply. Therefore, we kindly ask that you add our company name to your mailing list and ask about our high-quality equipment so that we can provide you with the most affordable quotes.

Thanking You

PRAVEEN KUMAR

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Soil Moisture Sensor

This is an easy to use digital soil moisture sensor. Just insert the sensor in the soil and it can measure moisture or water level content in it. It gives a digital output of 5V when moisture level is high and 0V when the moisture level is low in the soil.

The sensor includes a potentiometer to set the desired moisture threshold. When the sensor measures more moisture than the set threshold, the digital output goes high and an LED indicates the output. When the moisture in the soil is less than the set threshold, the output remains low. The digital output can be connected to a micro controller to sense the moisture level. The sensor also outputs an analog output which can be connected to the ADC of a micro controller to get the exact moisture level in the soil.

This sensor is great for making water gardening projects, water sensing, etc.

Specifications:-

Operating voltage: 3.3V~5V

Dual output mode, analog output more accurate

A fixed bolt hole for easy installation

With power indicator (red) and digital switching output indicator (green)

Having LM393 comparator chip, stable

Panel PCB Dimension: Approx. 3cm x 1.5cm

Soil Probe Dimension: Approx. 6cm x 3cm

Cable Length: Approx. 21cm

VCC: 3.3V-5V

GND: GND

DO: digital output interface(0 and 1)

AO: analog output interface

Connections:-

VCC connect to 3.3V-5V

GND connect to GND

DO digital value output connector (0 or 1)

AO analog value output connector

Usage:-

Soil moisture module is most sensitive to the ambient, generally used to detect the moisture content of the soil. When the module can not reach the threshold value, DO port output high, when the soil humidity exceeds a set threshold value, the module DO output low;

The small board digital output DO can be connected directly to the MCU, MCU to detect high and low, to detect soil moisture;

Small board digital output DO can directly drive the buzzer module or relay module in our store, which can form a soil moisture alarm equipment;

Small board analog output AO and AD module connected through the AD converter, you can get more precise values of soil moisture.

