

## Soil

<b>KS-D1</b>	
	<b>Specifications:</b> <ul style="list-style-type: none"><li>• Range: 0.1 to 15 Bars Tension</li><li>• Display: 3 1/2 " Digital LCD with 0-100 Arbitrary Scale</li><li>• Size: 2 3/4" x 4 3/4" x 1 3/4"</li><li>• Weight: 8 oz.</li><li>• Battery: 1-9V</li><li>• Carrying Case: included</li></ul>

The KS-D1 Digital Soil Moisture Tester, used with the GB-1 Gypsum Soil Blocks, make up a valuable system to monitor the soil moisture available to the plants. This system eliminates guesswork so that irrigation can be effectively scheduled according to plants' requirements. The KS-D1, housed in a rugged ABS plastic case, features reliable temperature stable semi-conductor technology with internal battery and calibration checks for users' full confidence. A membrane switch panel provides positive, tactile feel. Spring-loaded binding posts allow for positive contact with the blocks' leads.

### **Advantages:**

The importance of water to plant growth is well known. Also, effective irrigation should be properly controlled in quantity and timing. Continuous and appropriate use of soil moisture testing devices can effectively aid in obtaining maximum crop yield at optimum quality levels and conserve water.

### **Eliminate:**

- Under-irrigation – thus preventing wilting, and making fertilizer application more efficient.
- Over-irrigation – with remarkable savings in power, labor, and water.


**Prevent:**

Soil spoilage due to excessive water and poor drainage.

**Realize:**

Bigger and better crops at lower cost.

**Sensors**

GB-1 Gypsum Blocks	
	<p>The blocks are made of gypsum, cast around two concentric, stainless steel electrodes. They are manufactured under controlled conditions to obtain a maximum degree of uniformity and fast response to soil moisture changes. The GB-1 measures 7/8" dia. x 1 1/8 " in height. It is the most widely used sensing unit, easy to install and especially suited for extensive sampling of soil at various depths.</p>

**Simple Operation:**

The blocks are buried in representative areas in the field to monitor soil moisture changes in the area of active root growth. They are buried at one or more levels, depending on the crop and the depth of the root zone. When the blocks' lead wires are connected to the meter, an indication of the available soil moisture is immediately obtained on the meter display. The meter readings can be converted into terms of available soil moisture or soil moisture tension by referring to calibration curves, which are part of the operating instructions.