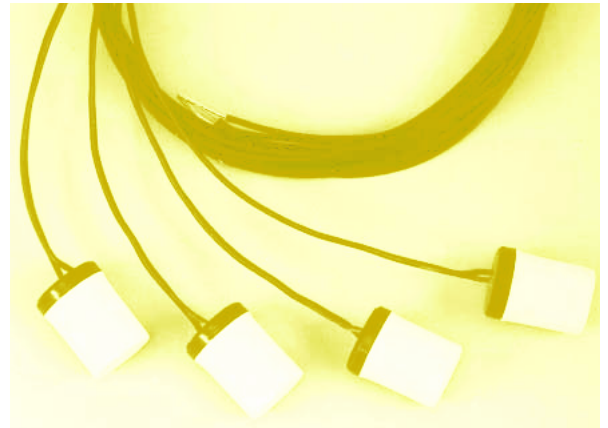


KS-D1 Digital Soil Moisture Tester

Compact, portable, easy to use



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.



SENSORS – 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.

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.

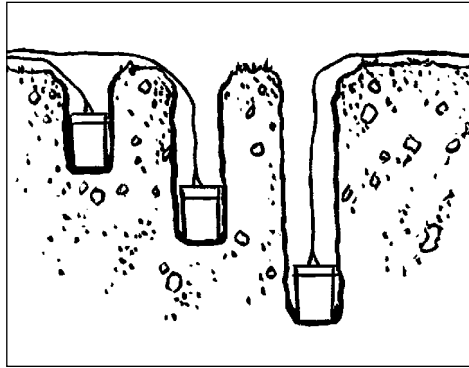
PREVENT- Soil spoilage due to excessive water and poor drainage.

REALIZE – Bigger and better crops at lower cost.

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.

KS-D1 Digital Soil Moisture Tester

EASY TO INSTALL AND EASY TO USE!



Gypsum blocks make this system versatile because they can be placed at any depth to best suit the root structure of each crop. Soil moisture variations are actually checked in those areas most affected by root growth. Holes for inserting Delmhorst Gypsum Blocks in the soil can be made with a soil auger, soil sampler, or posthole digger.

Gypsum blocks are located in the root zone. The number and depth are determined by the crop. Three points are recommended for deep rooted plants: the lowest point of the root system, midway and near the surface. The blocks should be left in the soil undisturbed.

To read a block, connect the blocks' leads to the Moisture Tester, press the "READ" button and read the display.

THE USE OF AN IRRIGATION CHART HAS DEFINITE ADVANTAGES

Recording the meter readings on a soil chart (see reproduction attached), will result in a graph which indicates the trend of soil moisture variations. Quantity and timing of irrigation is therefore easily determined in advance. A permanent record of irrigation, as well as rainfall, will be useful in evaluating the crop yields.

SPECIFICATIONS

Range: 0.1 to 15 Bars Tension

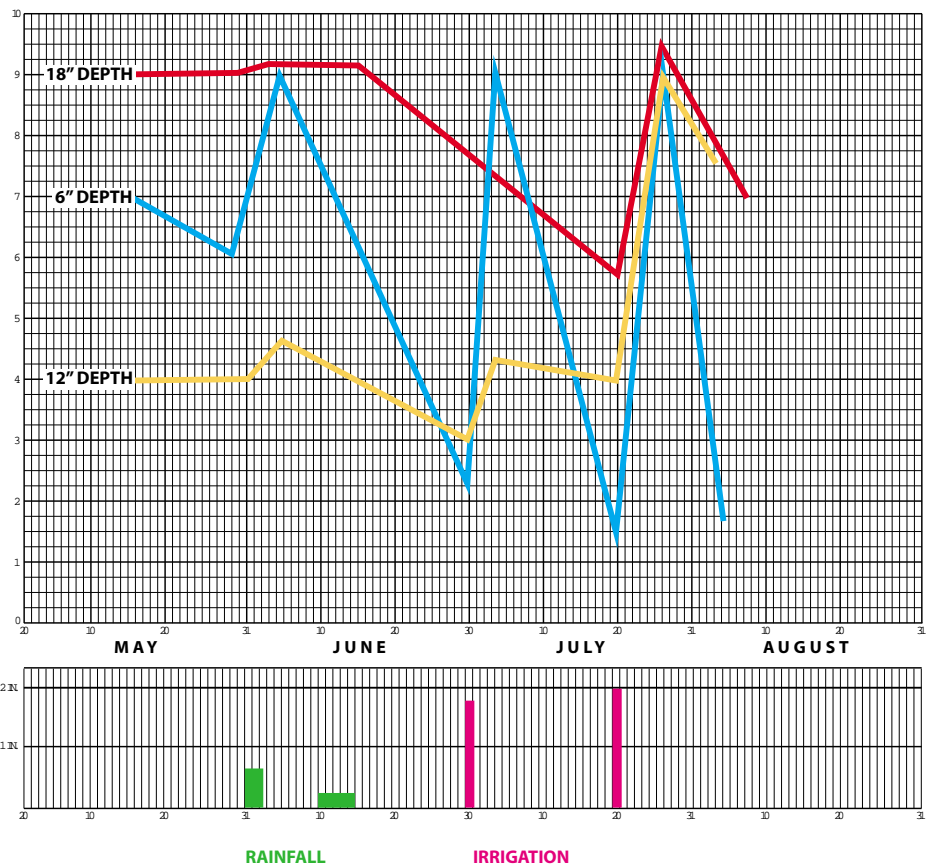
Display: 3 1/2" Digital LCD with 0-100 Arbitrary Scale

Size: 2 3/4" x 4 3/4" x 1 3/4"

Weight: 8 oz.

Battery: 1-9V

Carrying Case: included



KS-D1/3-00