

**SOIL MOISTURE SENSOR TS254****SOIL MOISTURE SENSOR TS254**

The TS 254 soil moisture sensor measures the dielectric constant of the soil which is directly related to the water content of the soil.

The sensor consists of a pair of electrodes encapsulated in epoxy resin, containing an electronic circuit that measures the dielectric capacity of the medium at a frequency of 5MHz.

This sensor, of very high durability, is not influenced by the salinity or conductivity in a soil suitable for agriculture.

The most important application of this sensor is to be able to decide when and how much to irrigate in controlled irrigation systems.

Being easily connected to Weather Stations, recorders, etc., it is possible to start irrigation automatically when the humidity levels fall below a user-determined value, as well as cut off the water supply when the humidity increases to the optimum default value of the crop.

**FEATURED FEATURES**

- . **High durability**
- . **High stability**
- . **Easy installation**
- . **Free maintenance**

SPECIFICATIONS**Range:***0 – 100% of field capacity***Type:***encapsulated electronic***Principle of****operation:***Variation of Dielectric Constant of the soil***Precision:***+/- 5 %***Output:***0.5 – 3.3Vcc***Power Supply:***5.5 – 16 Vcc***Diameter:***30mm***Length:***170mm***Encapsulated:***IP68***Materials:***epoxy resin***Length of cable:***5 mts*

* Other specifications and ranges available upon request.