

Soil Moisture Tension Sensor

Soil Tension sensor is a solid state electrical resistance sensing device that is used to measure soil water tension. As the tension changes with water content the resistance changes as well. That resistance can be measured using the soil Sensor. The sensor consists of a pair of highly corrosion resistant electrodes that are embedded within a granular matrix. A current is applied to the Sensor to obtain a resistance value. This sensor is designed to be a permanent sensor, placed in the soil to be monitored and "read" as often as necessary with a portable or stationary device. Internally installed gypsum provides some buffering for the effect of salinity levels normally found in irrigated agricultural crops and landscapes.

Features of Sensor:

- 0-200 Centibar range
- Stainless steel enclosure
- Fully solid state and Will not dissolve in soil
- Not affected by freezing temperatures
- Internal compensation for commonly found salinity levels
- Inexpensive, Easy to use and No maintenance

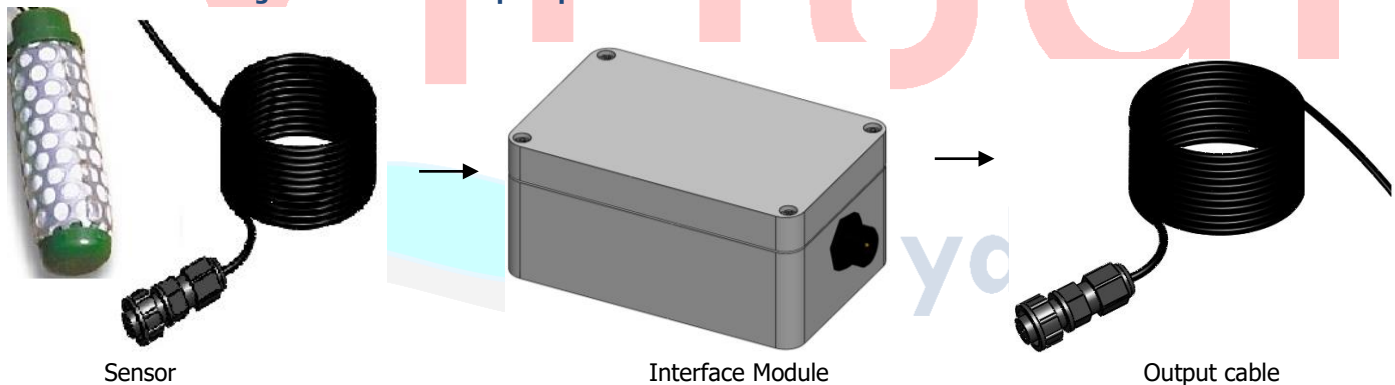
Specifications of Sensor :

- Range: 0 to 200 centibar
- MATERIALS: ABS plastic caps with stainless steel body over a hydrophilic fabric covered granular matrix.
- DIMENSIONS – DIAMETER: (22 mm), LENGTH: (83 mm)
- Sensor Weight: 0.147 lb. (0.067 kg) – with 5 ft. lead
- Output: User Selectable output

Applications:

- Irrigation Scheduling
- Water Table Monitoring
- Leak Detection
- Agronomy Research
- Environmental Monitoring
- Anywhere you need to know when or if the soil moisture status is changing.

Connection Flow Diagram for 4-20 m amp output:



Interface Module with Display (At Extra Cost):



Ordering Guide:

- | Output | Model No. |
|-----------------|------------------------------|
| Resistance O/P: | 200SS |
| Voltage O/P: | 200SS-V-x (x = range 0 to 5) |
| Current O/P: | 200SS -C-x (x = range 4-20) |