In use since 1978, the patented WATERMARK 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 WATERMARK Sensor.

The sensor consists of a pair of highly corrosion resistant electrodes that are imbedded within a granular matrix. A current is applied to the WATERMARK to obtain a resistance value. The WATERMARK Meter or Monitor correlates the resistance to centibars (cb) or kilopascals (kPa) of soil water tension.

The WATERMARK 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:
- Proven stable calibration
- Range of measurement from 0 to 239 cb (kPa)
- Fully solid-state
- Will not dissolve in soil
- Not affected by freezing temperatures
- Internally compensated for commonly found salinity levels
- Inexpensive, easy to install and use
- Compatible with AC or DC reading devices (specialized circuit required)
- NO maintenance required

APPLICATIONS INCLUDE –
- 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

Specifications –
MATERIALS: ABS plastic caps with stainless steel body over a hydrophilic fabric covered granular matrix.
DIMENSIONS – DIAMETER: .875 in. (22 mm)  
LENGTH: 3.25 in. (83 mm)  
WEIGHT: .147 lb. (.067 kg) – with 5 ft. lead wire
WIRE LEADS: AWG 20, 2 leads
WARRANTY: One year
ORDERING INFORMATION: Catalog #200SS
Standard length leads: –5 = 5 ft. (1.5 m), –15 = 15 ft. (4.5 m) – or – _ _ _ = custom length.
Catalog #200SS-X = without leads.
WATERMARK Soil Moisture Sensors are shipped bulk unless specified to be in retail packaging (add –PKG).

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Installation Examples:

**2 Stainless or Brass #6 Bolts (3/4" to 1" long using lock washer & nut).**

**1-1/2' PVC Slip Cap** (friction fit to bushing, NOT necessary to cement).

**1-1/2' x 1/2' PVC Bushing-S** (Cement to PVC pipe).

**NOTE:** Drill two holes in 1-1/2' PVC Cap to fit bolt size. Insert bolts from inside cap, through sensor lead eyelets, and secure bolts with lock washer and nuts.

**WATERMARK Sensor wire leads (folded into pipe & bushing if necessary).**

1/2' (13mm) Class 315 PVC (thin wall SDR 13.5) or 3/4' (19mm) CPVC (SDR 11) pipe (cut to length required for sensor depth).

**Drill 1/8'' hole in pipe to allow for air exchange with the soil. Align with slot in top of sensor.**

**WATERMARK Sensor can be cemented to the PVC pipe with ABS to PVC transition cement.**

**Drill 1/8'' Hole in pipe to allow for air exchange with the soil. Align with slot in top of sensor.**

**WATERMARK sensor can be cemented to the PVC pipe with ABS to PVC transition cement.**

**Secure wire pairs to post and label with appropriate sensor depths.**

**Vinyl Cap pushed over top of pipe.**

**Wire folded over and inserted into pipe.**

1/2' (13mm) Class 315 PVC (thin wall SDR 13.5) or 3/4' (19mm) CPVC (SDR 11) pipe (cut to length required for sensor depth).