

WaterTec S100™ Soil Moisture Monitor

The WaterTec S100 is the “Right Tool for the Job” because it’s the easiest way to add efficiency to an existing sprinkler system. Baseline’s soil moisture monitoring technology chooses which days to water while your current sprinkler timer controls the length of time each station runs. You’ll never over-water or under-water your lawn again.

The WaterTec S100 and biSensor are easy to install. Because it works with existing valve wires and all brands of sprinkler timers, you have everything you need to start conserving your way to a healthier lawn.

At the core of the WaterTec S100 is Baseline’s patented biSensor technology. The biSensor is buried in the root zone and relays real-time moisture data back to the WaterTec S100 monitor. The current moisture is compared against an adjustable threshold to determine when to allow your sprinkler system to water.

The WaterTec S100 also includes an auto calibration feature which makes initial configuration a snap. Just saturate the soil where the sensor is buried and initiate an auto calibration cycle.

WaterTec S100 Monitor Features

- Easy to read LCD display
- Displays highly accurate moisture readings
- Displays soil temperature readings in Celsius and Fahrenheit
- Automatically takes a new soil moisture measurement every fifteen minutes
- Easily adjustable moisture threshold
- Provides an alert when sprinkler system is currently watering
- Compatible with most rain sensors
- Displays the number of days since the last two watering cycles
- Status LEDs visible
- Automatically adjusts for weather
- Ability to bypass S100 control, if needed
- Built-in self-test features
- Displays current moisture and hours left in water window

WaterTec S100 biSensor Features

- The biSensor is fully sealed to protect all electronics from moisture and dirt. It is to be buried directly in the soil and it is submersible.
- Accurately measures soil moisture using patented modified TDT technology
- Self-calibrates to all soil types and conditions — not affected by salts or fertilizers
- Soil moisture readings are within $\pm 3\%$ of the actual volumetric soil moisture content
- Measurement ranges from 5% moisture to fully saturated soil
- Capable of measuring changes of less than 0.1%
- Measures soil temperature
- Power surge resistant
- Shock resistant

Specifications

- Operates on 24 VAC power from your sprinkler timer
- The WaterTec S100 monitor measures 4.57"W x 2.6"H x 1.5"D (15.15cm x 6.6cm x 3.81cm)
- biSensor element measures 6.125" x 2" x .0625" (15.54cm x 5.08cm x 0.16cm)
- biSensor logic module measures 2.5" x 1.5" x 0.75" (6.35cm x 3.81cm x 1.91cm)
- biSensor can be located up to 500 feet from sprinkler timer.
- Freeze/heat resistant -4°F to 140°F (-20°C to 60°C)
- All wire connections must be completely waterproof or failures are likely to occur.

How to Specify

BL-WTS100KIT WaterTec Soil Moisture Monitor Kit

WaterTec S100 Installation Tips

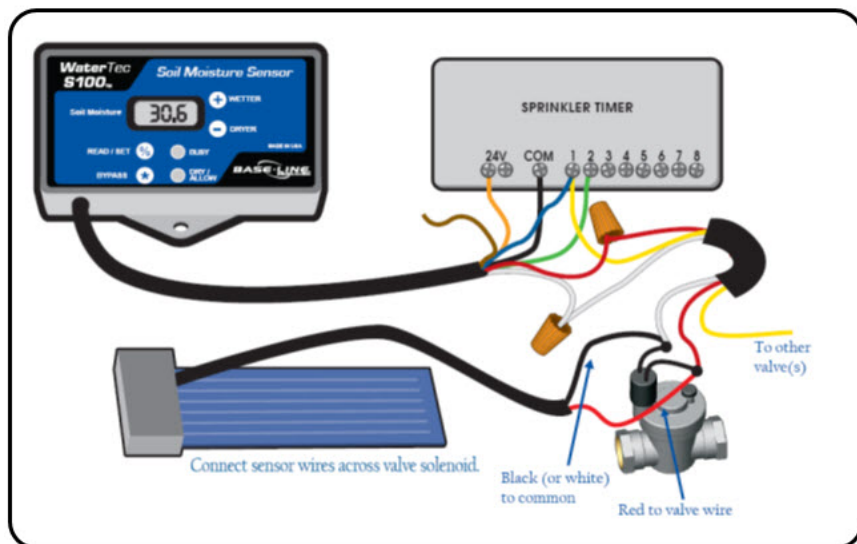
biSensor Installation

- Ensure there is good contact between the soil and the biSensor.
- Bury the biSensor so it is resting on its long edge. If the biSensor is buried flat, the readings can be wrong due to moisture pooling on the surface of the biSensor.
- Bury the biSensor 2" to 3" deep in turf areas and deeper for planters and tree areas (root zones).
- Use 3M™ DBR/Y-6 or equivalent moisture-resistant connectors in all below ground connections.
- Wet the ground thoroughly before beginning the actual installation, and then follow the instructions in the S100 Manual.

S100 Monitor Installation

- Locate the WaterTec S100 on a flat surface near your sprinkler timer.
- The unit is water resistant and is appropriate for wall-mounted, exterior installations.
- The S100 is not totally waterproof, and should not be mounted in below-grade applications.
- Refer to the WaterTec S100 Manual for specific installation instructions.

WaterTec S100 Typical Layout



S100 Wire Bundle

- ORANGE** = power
- RED** = sensor
- GREEN** = valve terminal on timer
- BLACK** = common to timer
- WHITE** = common to valves
- BLUE & BROWN** = bypass