



# Sentinel® Standard Enclosure Controllers

Toro Sentinel controllers are commercial-grade, modular units that do the irrigation control work in the field, and are designed to operate in both stand-alone and central mode.

The controller's large backlit graphical display, shortcut buttons for frequently-used functions, as well as integrated UHF radio and Ethernet communication make it easy to install and program. The controller can also be upgraded to operate with wireless soil sensors, continually measuring moisture and adjusting irrigation as needed. A variety of other communication options and upgrades are also available to provide maximum flexibility to meet any system's needs.

## Specifications

### Dimensions

- WS1 Small wall-mount: 10 1/4" W x 15 1/4" H x 5 1/4" D (260 x 387 x 133mm)
- WS5 Stainless wall-mount: 17 1/8" W x 30 3/4" H x 8 5/8" D (435 x 781 x 219mm)
- PS1 Stainless pedestal-mount: 17 1/8" W x 34 1/2" H x 8 5/8" D (435 x 876 x 219mm)
- PP1 Plastic Pedestal-mount: 17" W x 40" H x 16" D (432 x 1016 x 406mm)
- Weight:
  - WS1 Small Metal Wall-mount: 21 lbs (9,5 kg)
  - WS5 Stainless steel wall-mount: 47 lbs (21,3 kg)
  - PS1 Stainless steel pedestal-mount: 64 lbs (29,0 kg)
  - PP1 Plastic Pedestal-mount: 60 lbs (27,2 kg)

### Electrical Specifications

- Input power:
  - 120 VAC, 60 Hz
- Station output power:
  - 24 VAC
  - 1.0 amps per station maximum
  - 2.0 amps total load
- Surge protection: 24 V output boards, 20 KV @ 10 KVA

### Specifications and Features

- Programmable as standalone or with Sentinel central software
- Up to 5 mile line-of-sight radio range
- 16 programs
- Eight start times per program
- 6-week scheduling calendar
- Station runtimes from one minute to 4 hours and 15 minutes



- Global adjustment from 0-255%
- Flow sensor and handheld remote ready
- Add-on option for wireless soil sensing
- Two sensor inputs included for rain sensors or other switch sensors
- Non-volatile memory will retain all programming and real-time data for 10 years
- Multi-language display: English, Spanish, French, and Italian
- Operating temperature: 14° to 140°F (-10° to 60°C)

### Additional Options

- TWRS, TWRFS, TRS RainSensors™
- TFS series flow sensors
- SHHR – Hand Held Remote
- TPS-RX – Toro Pro Series Soil Sensor wireless receiver
- TPS-SS – Toro Pro Series Soil Sensor

### Warranty

- Five years

Configuration	Station Count	Enclosure	Communication
SB X	XX	XXX	U
SB – conventional wired SBW – short-range wireless	12—12-station 24—24-station 36—36-station 48—48-station	WS1 – Powder-coated Wall Mount (Small) WS5 – Stainless Steel Wall Mount (Large) PS1 – Stainless Steel Pedestal Mount PP1 – Plastic Pedestal Mount	U – UHF radio

**Example:** A Sentinel conventional controller in a small powder-coated wall-mount enclosure with UHF communication would be specified as: SB24WS1U