![TORO logo]

Sentinel® AC Two-Wire Controllers

Easy to install and expand up to 204 stations – a highly cost-effective controller for larger installations, the Sentinel AC Two-Wire Series operates industry-standard AC solenoids, making it ideal for system retrofits and expansions.

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.

WS1   **WS5**

PS1   **PP1**

Specifications

Dimensions

- WS1 Small wall-mount: 10 ¼" W x 15 ¼" H X 5 ¼" D
  (260 x 387 x 133mm)
- WS5 Stainless wall-mount: 17 1/8" W x 30 ¾" H x 8 5/8" D
  (435 x 781 x 219mm)
- PS1 Stainless pedestal-mount: 17 1/8" W x 34 ½" H x 8 5/8" D
  (435 x 876 x 219mm)
- 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: 60 lbs (27,2 kg)

Electrical Specifications

- Input power:
  - 120 VAC (60 Hz)
- Output power:
  - Up to 2 standard solenoids per station
  - Up to 4 standard solenoids per decoder
  - Up to 8 simultaneous standard solenoids per system
- Two-wire path wiring:
  - 14 AWG: 5,000 ft max, 10,000 looped
  - 12 AWG: to 8,000 ft max, 16,000 looped
- Decoder-to-solenoid wiring:
  - 14 AWG: 150 ft max

Specifications and Features

- Programmable as standalone or with Sentinel central software
- Decoders operate valves with AC solenoids
- Expandable to 204 stations
- 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

- SB-DAC-1 – AC single-station decoder
- SB-DAC-2 – AC two-station decoder
- SB-DAC-4 – AC four-station decoder
- SB-BLA – AC in-line surge protection
- 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	Enclosure	Communication
SBD	**XXX**	**U**
SBA – Sentinel AC decoder (two-wire) controller	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 AC two-wire controller in a small powder-coated wall-mount enclosure with UHF communication would be specified as: SBAWS1U