



Sentinel® DC Two-Wire Controllers

Easy to install and expand up to 204 stations – a highly cost-effective controller for larger installations, the Sentinel DC Two-Wire Series operates DC latching solenoids, reducing overall energy use and allowing for more stations to be run simultaneously.

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

- WS2 medium metal wall-mount: 14" W x 13" H x 6" D (355 x 330 x 152mm)
- 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)
- Plastic pedestal-mount: 17" W x 40" H x 16" D (432 x 1016 x 406mm)
- Weight:
 - WS2 medium 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 or 220/240 VAC (50/60 Hz)
- Station output power: Up to 38 VAC maximum; 3 amps maximum output
- Wiring two-wire path: Jacketed, twisted pair 14 AWG to 15,000 ft (4572 m)
- Wiring two-wire path: Jacketed, twisted pair 16 AWG to 8,450 ft (2575 m)
- Wiring decoder to solenoid: Jacketed, twisted pair 14 AWG to 400 ft (122 m)

Specifications and Features

- Programmable as standalone or with Sentinel central software
- Decoders operate valves with DC-latching solenoids
- 100 station base model expandable to 204 stations
- Up to 5 mile line-of-sight radio range
- 16 programs, eight start times per program
- 6-week or 365-day 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°C to 60°C)

Additional Options

- SB-DDC-1 – DC single-station decoder
- SB-DDC-2 – DC two-station decoder
- SB-DDC-4 – DC four-station decoder
- SB-DEC-SG-LINE – DC 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
SBD – Sentinel DC decoder (two-wire) controller	WS2 – Powder-coated Wall Mount (Medium) WS5 – Stainless Steel Wall Mount (Large) PS1 – Stainless Steel Pedestal Mount (Large) PP1 – Plastic Pedestal Mount (Large)	U – UHF radio

Example: A Sentinel DC two-wire controller in a medium powder-coated wall-mount enclosure with UHF communication would be specified as: SBDWS2U