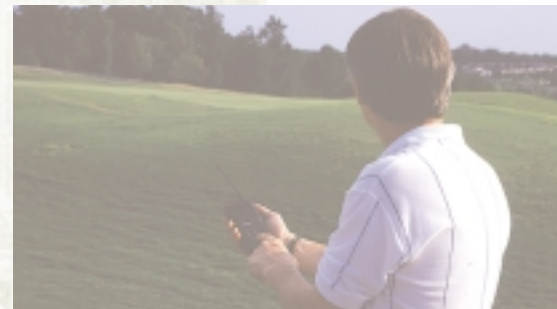


TORO**SpecSheet***Sentinel™ Global Irrigation System*

Growing turfgrass properly, regardless of climate, is no trivial task. To do it right, it takes more than a system that just turns your sprinklers on and off. It takes a system that offers quality, flexibility, precision and ease of use. A system that makes you feel protected; one you can trust. You need a system that will watch over and keep track of your entire site. Simply, you need a Sentinel.



- Complete system—central, satellite and hand-held radio
- Alarm/response and data retention capabilities in case of power failure
- Two-way communication—messages transfer either way between the central and satellites
- Over 100 systems already installed

**Commercial**

Sentinel. One that keeps guard.

Time is precious—we never have enough. What's more, we can't be everywhere at once, especially when we'd like to be. Sentinel can be that element that's missing. That constant guard over your site. It's the one that takes care of all, at once.

With Sentinel, you are protected.

- Alarm/response and data retention capabilities in case of power failure
- System problems immediately reported, displaying an alarm condition
- Provides absolute confirmation of communication and unit function
- Theoretical and real-time flows are displayed on the same graph for at-a-glance system checks



Functionality made simple.

So powerful yet so easy. A central control system can change your life—giving you capabilities you never thought possible. But if it isn't easy to use, your lifesaver becomes an over-priced paperweight. We want Sentinel to be your solution, so we made it easy to use. And still filled it with lots of features.

Whether managing a site with 24 or 2,400 valves, it can be tricky. Managing with Sentinel can be nearly effortless. Once your system is up and running, manual operations and fine-tuning adjustments become routine.

With Sentinel, you are in control.

- Two-way communication between the central and satellites minimizes liability
- Straightforward, easy-to-understand programming screens
- Data retrieval for flow and alarm purposes
- Multiple programs can be created and stored for use at any time
- No limits to interaction between valve groupings or field controllers means no limits on programming flexibility
- Each valve may be programmed as if it were an individual controller with a unique start time, run time, schedule time and flow value
- On-line Help screens maximize training
- No middle manager required—allows for fast and inexpensive reliable communication

A complete system.

When you think central control, the first thing that typically comes to mind is the computer. Though most of the data is stored there, the satellites are just as essential to system function. Both the central and satellite are part of the Sentinel system. And to make manual operations easier, we even offer an advanced, multi-function hand-held radio. There are no separate parts to purchase.

Sentinel satellites.



- Non-volatile memory—will retain all programming and real time data in the event of a power failure
- Programmable by the on-board keyboard or by laptop computer in the event of central computer failure or communication loss
- Complete central-functioning, stand-alone capability (when not in communication with the central)
- Stainless-steel wall mount and pedestal enclosures
- No middle manager required—allows for fast and inexpensive reliable communication



Exclusive Sentinel hand-helds.



- System commands from a remote location
- Communicates with central and satellites from the field
- Offers convenience and saves time
- Simple command set
- Clear audio verification of system commands
 - Extensive start and syringe capabilities
 - Comprehensive multi-manual functionality
- System and program pause and resume
- System on and off command activation

Exclusive 24/7 National Support Network (NSN).

All the support you need. Anytime you need it. With Sentinel, we offer a standard one-year or optional five-year plan. NSN is available 24 hours a day, seven days a week to answer questions, troubleshoot and solve system problems over the phone. If the issue is more complex, NSN offers a 24-hour computer replacement service to ensure minimal disruption to the operation of your irrigation system.



Central system comes with a standard one-year or optional five-year plan of the exclusive Toro National Support Network (NSN)—the most-advanced, one-stop computer hardware/software support service in the irrigation industry.

Specifications

Sentinel Central

- Manages up to 999 Sentinel satellites per database
- Up to 48 stations per satellite per database
- Up to 37,952 total stations
- Up to 16 irrigation programs
- Provides two-way communication for monitoring and feedback of satellite conditions
- Extensive alarm capabilities
- Protects against user errors
- Alerts user to system communication errors
- Hand-held radio capability
- Sentinel Troubleshooting Kit available

Sentinel Satellites

Electrical Specifications

- Input power:
- 120 V a.c. (60 Hz)
- 1.0 amps @ 120 V a.c.
- Output power:
- 24 V a.c. (60 Hz)
- 0.5 amps (24 VA) per station
- 1.0 amps (24 VA) total
- UL listed, CSA and CUL certified

Mechanical Specifications

- Dimensions:
- Stainless-steel wall mount:
17 $\frac{1}{8}$ " x 8 $\frac{3}{8}$ " x 30 $\frac{3}{4}$ "
- Stainless-steel pedestal mount:
17 $\frac{1}{8}$ " x 8 $\frac{3}{8}$ " x 34 $\frac{1}{2}$ "

Specifying Information—Sentinel Central

<div>SGIS</div> <div>X</div>	
Description	Service
SGIS—Sentinel Global Irrigation System	1—1-year NSN 5—5 years NSN
Optional SHHR—Sentinel Hand-held Radio SRTA—Sentinel Remote Transceiver Assembly	
For Example: When specifying a Sentinel Global Irrigation System with 5 years NSN and a Sentinel Hand-held Radio, you would specify: <div>SGIS-5 and SHHR</div>	

Specifying Information—Sentinel Satellites

<div>SSA</div> <div>XX</div> <div>XS1</div> <div>N</div> <div>M4</div> <div>XX</div>					
Description	Configuration	Cabinet	Communication	Output	Options
SSA—Sentinel Satellite Assembly	24—24 Stations 48—48 Stations	WS1—Wall Mount, Stainless-steel PS1—Pedestal Mount, Stainless-steel	N—Narrow Band	M4—Surge Protection w/Switches	DR—Data Card
For Example: When specifying a S24-station, pedestal-mount, stainless-steel Sentinel Satellite and optional Data Card, you would specify: <div>SSA-24-PS1-N-M4-DR</div>					

