

**TORO®**

# LYNX® SMART MODULE 2-WIRE CONTROL SYSTEM

The Toro Lynx Smart Module 2-Wire Control System uses innovative technology to provide an irrigation solution that is reliable and efficient. Using a 2-wire path to communicate to buried control units, the system reduces the costs associated with traditional valve wire bundles and provides a solution that is vandal resistant, easy to install and easy to expand.

## FEATURES & BENEFITS



### Speed

Provides information faster than other two-wire brand, reducing test times from minutes to seconds and providing greater visibility into the overall health of the irrigation system.



### Precision

Apply water with one-second resolution. The exact amount of water is placed exactly where it's needed.



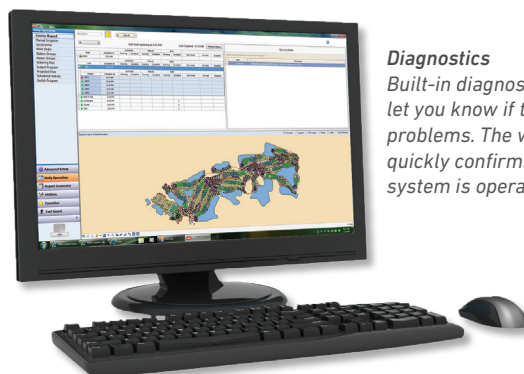
### Upgradeable

Upgrade remotely with just a click. Innovative new features and benefits are just a click away.



### Durable

Best in class surge protection to help weather the storm. It works with the Lynx Smart Hub, which protects the flow managed irrigation schedule, even in the event of a central failure. Best in class broadband lightning protection.



### Diagnostics

Built-in diagnostics automatically let you know if there are any problems. The wire path check quickly confirms that the whole system is operational.

**Integrated Sprinkler**  
Toro INFINITY® and FLEX800™ Series sprinkler models have an integrated 2-wire module option.



# INTERFACE OPTIONS



## Lynx Smart Hub

Lynx Smart Hub is a new type of field controller that adds security, programmability and sensing to the benefits and simplicity of a two-wire system.

- ✓ The system can be segmented into manageable areas for simplified maintenance
- ✓ Provides for in-field manual operation or troubleshooting
- ✓ Stores and runs a fully flow-managed irrigation schedule in the event the central computer is offline
- ✓ Creates a convenient point of connection for soil, flow and status sensors

### Specifying Information—2-Wire Modules

LSM-1	
Type	Configuration
LSM	X
Lynx Smart Module	1—1-station

Example: A 1-station Lynx Smart Module would be specified as: **LSM-1**

*\*Refer to sprinkler pages for specifying information on Sprinkler 2-wire Modules*

## SPECIFICATIONS

### Operational

#### Lynx® Central:

- Mapping capabilities
- Remote hand-held operation
- Weather station integration
- Pump station integration
- Enhanced diagnostics:
  - Communication
  - Electrical shorts/opens
  - Solenoid check
- No holding power required to operate stations
- Decoder identification is a unique 6-character address

### Installation

- Maximum number of wire paths: 4 per gateway
- Maximum number of Lynx Smart Hubs: 20 per system
- Maximum number of modules per wire path: 250
- Maximum stations per Lynx Smart Hub: 1000
- Maximum stations per system: 10,000
- Simultaneous stations per output board: 100
- Maximum distance from central to module (using 14 gauge wire): 2.8 miles
- Maximum distance from module to sprinkler (using 14 gauge wire): 400 ft.
- Solenoids per output: 2 DCLS-P
- Stations per module: 1

### Electrical

- Input power: 88-264 V ac, 50/60 Hz
- Output Power:
  - Output voltage: 40 V ac max
  - Output power: 75 VA max
  - Class 2, SELV
- ISP 2-wire modules are rated at 20 KV surge protection
- 2-Wire modules wiring: 14 awg

### Lynx Smart Hub



### Specifying Information—Gateway or Lynx Smart Hub

DEC-XXX-XXXX-XX				
Type	Configuration	Cabinet	Station Count	Communication Type
DEC	XXX	X	XXXX	XX
DEC	RS—Lynx Smart Hub	WM Metal P—Green Plastic Pedestal B—Brown Plastic Pedestal T—Tan Plastic Pedestal	1000—1000 Stations, Lynx Smart Hub*	M—Wireline DR—Radio

Example: A 1000 station Lynx Smart Hub with green plastic pedestal and radio communication would be specified as: **DEC-RSP-1000-DR**

*Note: A blank after RS indicates the wall mount cabinet. P, B, and T indicate green, brown, and tan plastic pedestals.*