

TORO®

GDC 2-WIRE CONTROL SYSTEM



The Toro Lynx GDC 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

Simplicity

One cable simplifies installation and maintenance. Automated diagnostics keep you informed.

Expandable

Adds, moves and changes are easy – just plug and play.

Cost Effective

Less wire – lower cost.

Forward Thinking

Two-way communication between the central and every sprinkler enables the addition of more SMART features.

Secure

The unique LYNX Smart Hub can run the automatic programs, even if the central is down. 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.



DEC-ISP-4

DEC-ISP-2

DEC-ISP-1

Modules for
in-line valves
for tee boxes,
landscaping, etc.



Integrated Sprinkler

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

INTERFACE OPTIONS

Gateway Interface

Combines power and data together into a coded signal that is transmitted on the two-wire path. The wall mounted cabinet is normally installed in the office, next to the Lynx central control computer.



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

DEC-ISP-X	
Type	Configuration
DEC-ISP	X
DEC-ISP—Module*	1—1-station 2—2-station 4—4-station

Example: A 2-station GDC Module would be specified as: DEC-ISP-2

*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 5-character address

Installation

- Maximum number of wire paths:
 - 4 per gateway
- Maximum number of gateways:
 - 4 per system (Standard)
 - 9 per system Lynx Smart Hub
- Maximum number of modules per wire path:
 - 250
- Maximum stations per gateway:
 - 1000 integrated (Standard)
 - 1600 off fairway (Standard)
 - 1000 Lynx Smart Hub
- Maximum stations per system:
 - 4000 integrated (Standard)
 - 6400 off fairway (Standard)
 - 9000 Lynx Smart Hub
- Simultaneous stations per output board:
 - 100
- Maximum distance from central to module (using 14 gauge wire): 2.6 miles
- Maximum distance from module to sprinkler (using 14 gauge wire): 400 ft.
- Solenoids per output: 2 DCLS-P
- Stations per module: 1, 2 or 4

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



Standard



Specifying Information—Gateway or Lynx Smart Hub

DEC-XXX-XXXX-XX				
Type	Configuration	Cabinet	Station Count	Communication Type
DEC	XXX	X	XXXX	XX
DEC	PCS—Central RS—Lynx Smart Hub	WM Metal P—Green Plastic Pedestal B—Brown Plastic Pedestal T—Tan Plastic Pedestal	1600—1600 Stations, Standard 1000—1000 Stations, Lynx Smart Hub*	M—Wireline DR—Radio *Only available for Lynx Smart Hub

Example: A1000 station Lynx Smart Hub with green plastic pedestal and radio communication would be specified as: DEC-RSP-1000-DR