



GDC 2-WIRE CONTROL SYSTEM



The Toro® GDC System uses innovative technology to provide an irrigation solution to customers who want a safe, reliable and energy efficient system. Using a two-wire path to communicate to buried control units, the system eliminates 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

Lower Costs With Flexible Configurations

GDC Systems can be configured with the decoders located in valve boxes outside of the playing area for easy access and lower cost, or with the decoder integrated with the sprinkler to reduce wire and splices.

Less System Downtime With Integrated Surge Protection (ISP)

ISP decoders are rated at 20 KV surge protection—the highest in the industry. In some of the most active lightning areas of the world, the GDC provides rock-solid performance.

Easily Expandable Up To 6400 Stations

Whether you have 100, 800 or 6400 stations, the GDC system will meet your needs and can be expanded by simply adding decoders.

Station-based Flow Management

Reduces nighttime water window and optimizes pump efficiency. Central irrigation programs are available from the hand held radio for manual watering.

Central Control

Lynx® Central Control is both powerful and easy to use.



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

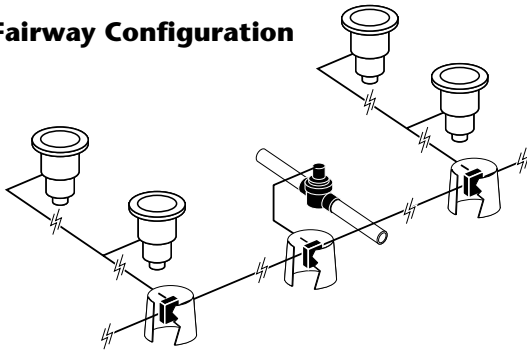
Toro valve-in-head sprinkler models have an integrated decoder option.



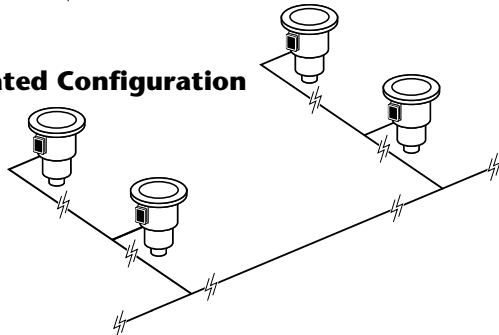


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Off Fairway Configuration



Integrated Configuration



DEC-ISP-4

DEC-ISP-2

DEC-ISP-1

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
- Standalone option (GDC200)

Installation

- Maximum number of wire paths:
 - 4 per gateway, 16 per system
- Maximum number of gateways:
 - 4 per system
- Maximum number of decoders per wire path:
 - 250
- Maximum stations per gateway:
 - 1000 integrated
 - 1600 off fairway
- Maximum stations per system:
 - 4000 integrated
 - 6400 off fairway
- Simultaneous stations per output board:
 - 100
- Maximum distance from central to decoder (using 14 gauge wire): 2.6 miles
- Maximum distance from decoder to sprinkler (using 14 gauge wire): 400 ft.
- Solenoids per output: 2 DCLS-P
- Stations per decoder: 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 decoders are rated at 20 KV surge protection
- Decoder wiring: 14 awg

Temperature

- Operating Temperature: 32° F to 140° F
- Storage temperature: -22° F to 212° F

Specifying Information—Decoder

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

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

*Refer to sprinkler pages for specifying information on Sprinkler Decoders

Specifying Information—Stand-alone Gateway

DEC-SA-200		
Type	Communication	Station Count
DEC	SA	200
DEC—Decoder	SA—Stand-alone	200—200 Stations