

# TORO FIELD CONTROLLERS



## SATELLITE CONTROL

Controllers are placed on each hole to operate a specified number of stations. They work with a central computer but can also be programmed independently for standalone operations.

### ADVANTAGES

- Easy to troubleshoot and maintain because main components and wire connections are above ground.
- Offers in-field manual operation. Turn watering on from the pedestal with sprinklers in view — ideal for construction and grow-in.
- Can operate without a computer connection and will continue to run the watering program if signal is lost.

## 2-WIRE (DECODER) CONTROL

Intelligent modules are installed near or on the sprinklers. These buried control units are all connected to the central computer by a simple two-conductor cable.

### ADVANTAGES

- Lower initial purchase cost by eliminating satellite boxes and thousands of meters of wire required for a satellite system.
- No visible components on the course. All parts are buried underground, eliminating the risk of vandalism or damage.
- Easy installation and expansion due to low voltage power and direct burial.



# THE BEST OF BOTH WORLDS: NEW LYNX<sup>®</sup> SMART HUB

This new type of field controller combines the flexibility of satellite controllers with the cost savings of a 2-wire/decoder system.

### LIKE A SATELLITE:

- Superior backup and operation if connection to the central computer is interrupted.
- Easy to troubleshoot and maintain.

### LIKE A DECODER:

- Up to 20% lower installation cost
- 90% less cable on the course
- Uses low voltage

**PLUS**, each Smart Hub can control up to 1000 sprinklers, compared to 64 per traditional satellite controller.





Toro is always there to help you care for your landscapes the way you want,  
when you want, better than anyone else.

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Lynx<sup>®</sup> Smart Hub







**YOU HAVE NEEDS.  
TORO HAS OPTIONS.**

Learn more at  
[www.toro.com](http://www.toro.com)





# TORO<sup>®</sup> LYNX<sup>®</sup> SMART HUB DELIVERS INTELLIGENT SIMPLICITY

This new field controller adds the security, programmability and sensing capabilities of a satellite system to the benefits and simplicity of the Lynx<sup>®</sup> GDC 2-Wire Control System.

- Enables two-wire control of multiple golf holes (up to 1000 sprinklers per Smart Hub)
- Provides in-field manual operation or troubleshooting
- Stores and runs a fully flow-managed irrigation schedule if central computer is offline
- Simplifies maintenance by segmenting system into manageable areas
- Creates a convenient connection point for soil, flow and status sensors
- Offers more efficient surge protection with all stations operating from a Smart Hub
- Allows cost-effective upgrades

## SMART HUB/GATEWAY SPECIFICATIONS

Input voltage.....100-240 VAC, 50/60 Hz

Input current.....1.6A/1.0A (115/230)

Output voltage.....40VAC max

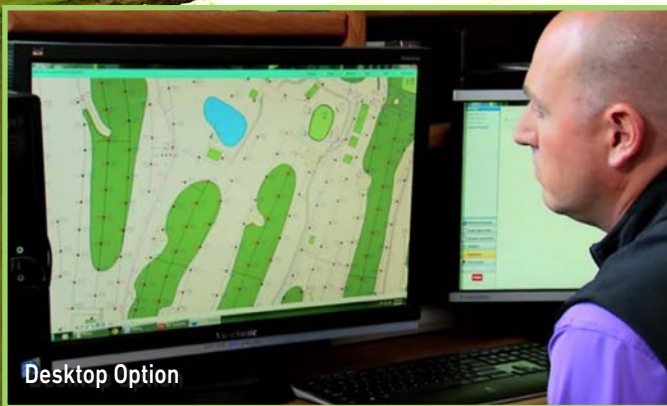
Output power.....75VA max, Class 2, SELV

Operating Temperature .....0° - 60°C (32° - 140°F)





# LYNX<sup>®</sup> SMART HUB COMBINES THE BENEFITS OF SATELLITES AND DECODERS



**Lynx Smart Hub**  
Each Smart Hub can control multiple golf holes.

## SYSTEM FEATURES

- 4** Wire Paths Per Smart Hub
- 250** Stations Per Wire Path
- 20** Smart Hubs Per System
- 5000** Sprinklers Per System
- 50** Simultaneous Stations Per Wire Path
- 304 m** Distance Between Ground Points
- 4500 m** Maximum Wire Path Length with a 2,5mm cable
- 20 KV** Surge Protection







78

**1000**  
STATIONS  
PER SMART  
HUB

**20**  
SMART HUBS  
PER SYSTEM

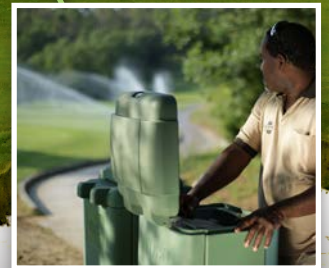


Lynx GDC  
Decoder

**INFINITY™ series sprinklers** are ideal for decoder systems. Smart Access™ protects the decoder, providing top accessibility to critical components without digging. Learn more at [www.toroinfinity.com](http://www.toroinfinity.com).



Operate sprinklers right from the Smart Hub pedestal, with the sprinklers in view on the course. No need to radio or return to the office.



## DIFFERENT CLIMATES, DIFFERENT NEEDS, SAME SOLUTION

For golf courses in colder, rainy climates that irrigate for a shorter portion of the year, decoders are often the preferred choice. In these climates, Smart Hub offers the ability to add the convenience, backup operation and in-field control of a satellite box-type controller to a decoder system.

In warmer, drier climates where golf courses irrigate more frequently throughout the year, satellite controllers have traditionally been the preferred choice. Now Smart Hub makes it possible for golf courses in these areas to enjoy the benefits

of the satellite controllers they are accustomed to — with the lower cost of a decoder system that requires fewer pedestals and substantially less wire.

## FLEXIBLE INSTALLATION OPTIONS

Hardwire, 2-way radio and paging communication options allow for easy installation and maintenance. Other options include local or remote mounting.



Lynx GDC Decoder



250  
SPRINKLERS  
PER WIRE

4.5  
KM RANGE  
PER SMART  
HUB

4  
WIRE PATHS  
PER SMART HUB



Learn more at  
[www.toro.com](http://www.toro.com)



INFINITY In Use



Lynx Smart  
Hub In Action



# FEATURES AND BENEFITS



## Simplicity

One cable simplifies installation and maintenance  
Automated diagnostics keep you informed



## Cost Effective

Less wire – lower cost



## Forward Thinking

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



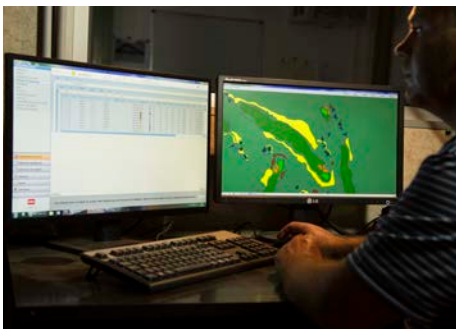
## Expandable

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



## Secure

The unique LYNX Smart Hub can run the automatic  
programs, even if the central is down. Best in class  
broadband lightning protection



## LYNX® CENTRAL CONTROL

The Toro Lynx® Central Control system makes all essential irrigation information available in a single, intuitive interface to help you save time, water and money. Powerful diagnostics automatically inform you about any problems. Key benefits include:

**Easy Setup** – Lynx gives you a fast, accurate way to program and control your irrigation activities right from your course map.

**Easy Control** – A comprehensive Course Report function supports your scheduled irrigation with system status information, even on manual watering activities.

**Water Savings** – Put water exactly where you want, and easily make edits as your course conditions change.

**Lynx Remote Access** – Gives you the ability to access your irrigation controller from anywhere – simply and securely!

**Easy Irrigation** – Empowers you to take quick, accurate action to effectively control and manage your golf course.

**Aesthetics and Playability** – With thorough reports, you'll be able to immediately address any irrigation concerns and avoid potential course damage.



Lynx Map



Lynx Handheld



Lynx Barcode