

# PILOT® INTEGRATED HUB SYSTEM

*Comprehensive Golf Course Irrigation Made Simple*

GOLF IRRIGATION | *Built on Innovation®*

# Hunter®



## Pilot CCS

*Command Center Software*

## Pilot IHS

*Integrated Hub System*

## Total-Top-Service Rotors

*with Integrated Two-Way Modules*



Österåkers Golf Club  
Åkersberga, Sweden

[hunterindustries.com/golf](http://hunterindustries.com/golf)



## Pilot CCS

Powerful software designed with advanced tools makes irrigation simple and seamless

## Pilot Hub

Reliable controllers with modern engineering and next-generation technology simplify installation and reduce costs

## TTS Rotors

Pilot Two-Way Modules with no-dig Total-Top-Serviceability maximize distribution uniformity and make maintenance a breeze



# Pilot NETWORK

## **Pilot CCS**

### *Command Center Software*

With next-generation Pilot Software, you can create hydraulically safe and efficient daily course watering plans faster than ever before. Pilot helps manage thousands of individually controlled sprinklers in seconds. It's the ideal management tool for an Integrated Hub System.

## **Pilot Hub**

### *Integrated Hub System*

Integrated Hub Systems help you save time and money from day one. Compared to a Field Controller System, an Integrated Hub System uses less copper wire and requires fewer splices, valve boxes, and concrete pads. This means lower costs, faster installation, and easier system diagnosis and repair if needed. You can also easily expand the system if desired.

## **TTS Rotors**

### *with Integrated Two-Way Modules*

Pilot Two-Way Modules (TWMs) built into every rotor permit highly efficient control of complex irrigation systems. The rotors are connected to the system via low-voltage, direct-burial communication cable.

## **ICD-HP Programmer**

### *Communicate Directly with TWMs*

Program and troubleshoot two-way modules with no digging or wires required. The handy device communicates directly through the plastic without barcodes, saving you time in the field.



*There's nothing else like it in the industry! Investigate course issues from the field. Link directly with TWMs and confirm operation to simplify irrigation management.*

# Work Smarter with *Pilot Hubs*

**Modern design and next-generation technology combine to create the most complete, most powerful solution for golf irrigation on the market.** All system activity is monitored by the hubs and the central computer in real time.

**Advanced digital communication methods and built-in redundancy allow schedules to be downloaded directly to each hub,** so irrigation is not dependent on one central point. Best of all, hubs can also communicate using highly efficient radio technology, so you can place them exactly where you want. This means there is no limit to the size of your system because there is no need to wire back to the central point.

**Finally, Pilot Integrated Hubs give you complete oversight** for new grow-ins and major renovations where the central computer may not yet be installed.

### Water-Resistant Keypad



The control panel has a large, multi-language display with quick-access buttons for the most commonly used functions. Each hub can store and execute full watering instructions independent of the central computer.

### Protection from the Elements

Circuit boards have a protective coating that protects them from power surges, water, and insects. The coating also helps protect against high temperatures, which are the biggest contributors to system failure. Components have captured screws to simplify assembly and maintenance.

Water diversion channels are carefully engineered to funnel moisture away from sensitive system components.

Built-in louvers generate a chimney effect to effectively dissipate heat into the surrounding environment, prolonging system life.

### Dedicated Power Supply



Circuit boards and radio communication power is not diverted from integrated two-way modules. Design with confidence and know that your course stays active if something goes wrong with a TWM path.

A convenient power switch allows you to safely shut down the controller without turning off power at the breaker.

### Reliable, Hassle-Free Communication

With a Pilot Integrated Hub System and TWMs, you can communicate confidently across the course with modern two-way digital communication and radio signals. System communication remains reliable and consistent course-wide.

### Optimal Performance, Maximum Field Life

Each module can accommodate up to 250 stations per output module. In addition, each output module has its own digital autoswitching power supply. This means incoming voltage matters less and the hub functions perfectly even when powered by a generator or other flexible power source.



# *Access Everything Through the Top*

**Total-Top-Serviceability is a game-changer when it comes to time and cost savings in the field.** We offer a full line of TTS Rotors to provide maximum uniformity and longevity in a range of applications. Our flagship TTS-800 Series Rotors are the best in the industry.

**The high-torque gear drives of TTS-800 Series Rotors are the strongest on the market,** so the challenges of reclaimed water use or poor water quality are mitigated. An extra-large, fast-access flange compartment comfortably accommodates wire connections and other components.

**Best of all, no-dig Total-Top-Serviceability means you can spend less time troubleshooting** and more time keeping your course healthy and playable.

### Easy Access to All Components



An extra-large, fast-access flange compartment comfortably accommodates wire connections and other components. Convenient, no-dig Total-Top-Serviceability means routine maintenance is a breeze.

### Convenient Wireless Connection



With the handheld ICD-HP Programmer, you can wirelessly program and interrogate every TWM from the surface. Communicate directly with TWMs and get digital confirmation of TWM functionality so you know wire paths are in working order.



### Two-Way Modules Simplify Irrigation

Pilot Two-Way Modules (TWMs) use advanced digital communication technology and are available with 1-, 2-, 4-, and 6-station output configurations. TWMs are compatible with most standard 24 VAC systems for simple conversion. TWMs let you operate as many as 999 stations up to 1.5 miles from a single hub.

Solenoid and TWM components can be replaced individually versus costly module alternatives. Additionally, integrated 2-station modules permit course design flexibility and efficiency for back-to-back rotor applications.

*Three cable entry ports simplify installation and organize wiring.*

# Hunter®

## Golf Irrigation

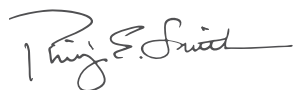
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Hunter has been on the leading edge of golf course irrigation for more than three decades. We build performance, reliability, and serviceability into every product. From our industry-best rotors to our robust Pilot® Network, we take pride in providing golf experts and professionals with the tools and support they need to conceptualize, create, and manage world-class golf courses.

Learn more at [hunterindustries.com/golf](https://hunterindustries.com/golf).

**Website** [hunterindustries.com](https://hunterindustries.com) | **Customer Support** 1-800-383-4747 | **Technical Service** 1-800-733-2823

**Helping our customers succeed is what drives us.** While our passion for innovation and engineering is built into everything we do, it is our commitment to exceptional support that we hope will keep you in the Hunter family of customers for years to come.



Gene Smith, President, Landscape Irrigation and Outdoor Lighting