

# Hunter®

# NEW

2-WIRE SYSTEM MADE FOR  
**I-CORE**



## Two Wires, Infinite Capabilities

With all the intelligent features of I-Core, upgrading to Dual just means you're doing the best job even faster. Now the intuitive I-Core, the controller of choice for mid-range commercial projects, can be converted to two-wire capability with a Dual module. You'll see savings in labor, maintenance, troubleshooting, and wire, all while enjoying I-Core's state of the art features and benefits, including real-time flow monitoring, quick access to a whole system overview, a factory-installed SmartPort®, six language capability, and a bold, graphic display. And with the familiar programming of a Hunter controller, installing that first two-wire system is no problem for both you and the client. Just as Hunter

pioneered the successful technology of modular controllers for the industry, they are bringing the groundbreaking two-wire decoder innovation to irrigation professionals for all sizes of systems. Why run 50 wires when you only need two?

Dual decoders come in one and two-station versions. Aptly named Dual-1 and Dual-2, the decoder choices ensure any I-Core Dual system is customizable to the needs of any installation.

*Why run 50 wires when  
you only need two?*

**DUAL**  
CONNECT AND GO





## I-CORE FEATURES

- 4 Independent programs
- 8 Start times per program (A, B, C); 16 (D)
- Max. station run time: 12 hrs
- Easy Retrieve™ memory
- Compatible with Hunter Clic sensors and other micro-switch type weather sensors
- One touch manual start and advance for easy manual operation
- Real-time flow monitoring with Hunter HFS flow sensor
- Flow monitoring and alarms to station level
- Rain sensor bypass
- Programmable rain delay
- Manual cycle
- Automatic short circuit protection
- Seasonal adjustment (global): 0% to 300% (in 1% increments)
- Seasonal adjustment (monthly)
- Delay between stations (maximum): 9 hrs
- Sensor programmable by zone
- Simultaneous program operation: Any 2
- Total run time calculator

# I-CORE

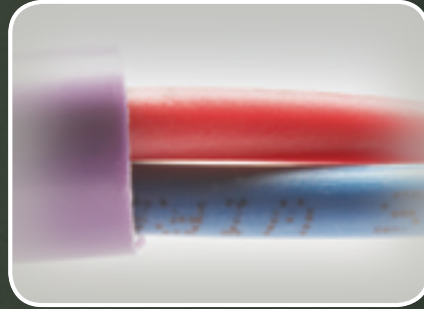


## DUAL DECODER CORE COMPONENTS



### DUAL48M I-CORE MODULE

The module is what makes it Dual. Simply install the DUAL48M module to any I-Core, and your controller is now two-wire ready. With a capacity of up to 48 stations, I-Core Dual is able to be customized for any size job. And with the flexibility of two-wire technology, it's a snap to expand the number of stations of a pre-existing system without additional wiring.



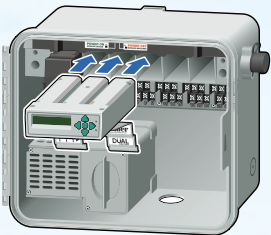
### JACKETED IDWIRE

Hunter's color-coded, twisted pair IDWIRE is jacketed for easily-installed direct burial wiring that resists surges and electrical noise, while providing high tensile strength for permanent in-ground installation. And with only one line to run from I-Core, materials costs are reduced.



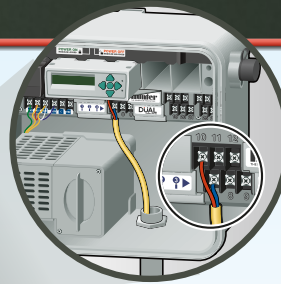
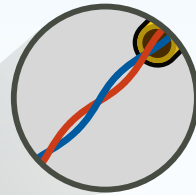
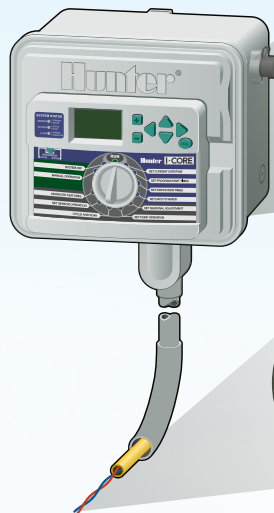
### SIMPLE, RELIABLE DECODERS

Hunter's all-new Dual decoders are waterproof, color-coded, and field programmable. They keep the power in decoders but take the mystery out.



### Easy Installation

The Dual decoder module easily plugs into the I-Core controller converting it to 2-wire/decoder control. Up to 3 two-wire paths can be wired to the controller allowing maximum design flexibility.



### Connect and Go

The DUAL48M decoder output module includes its own user interface, just for decoder functions. The Dual module can also co-exist with conventional ICM-600 station modules.



## ADDITIONAL COMPONENTS



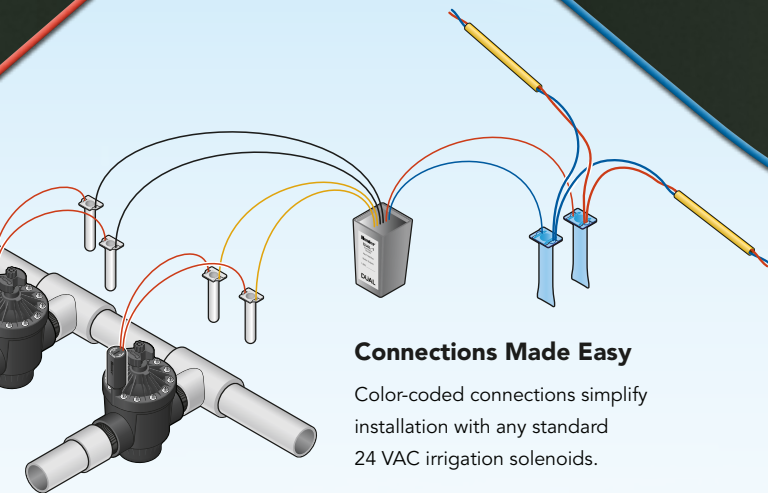
### CUSTOMIZABLE SURGE PROTECTION

With Dual-S surge suppressors, any system is easily designed for your region's level of surge protection needs.



### EASY PROGRAMMING WITH ICD-HP

Program, test, and diagnose decoders without disconnecting any wires. The ICD-HP uses wireless induction to program and communicate with new or installed decoders, right through the decoder body.



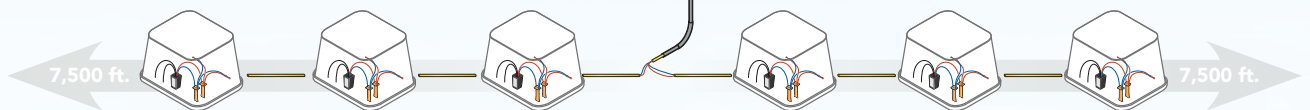
### Connections Made Easy

Color-coded connections simplify installation with any standard 24 VAC irrigation solenoids.



### 7,500 Feet Each Direction

Wire up to 7,500 feet of 12 AWG or 5,000 feet of 14 AWG.



# Charts and Specs

## I-Core

### Electrical Specifications

- Transformer input: 120/240 VAC, 50/60 Hz
- Transformer output (24 VAC): 1.4 A
- Dual voltage transformer (120/240 VAC)
- DUAL48M output: 34V peak to peak, non-sinusoidal
- Dual decoder (DUAL-1 and DUAL-2) power consumption: Standby, 3-4mA; Active, approximately 40mA per solenoid
- P/MV output (24 VAC): 0.56 A
- Simultaneous station operation (includes master valve): 5 valves
- Real-time flow monitoring with Hunter HFS (see table for fittings)
- Clik sensor inputs: Plastic-2; Metal-3
- Operating temperature: 0° F to 140° F

### Approvals

- CE, UL, cUL, C-tick, FCC

## BASE MODELS

IC-600-PL = 6-Station controller, indoor/outdoor, plastic cabinet

IC-601-PL = International version, 6-Station controller, indoor/outdoor, plastic cabinet

IC-600-M = 6-Station controller, indoor/outdoor, metal cabinet

IC-600-PP = 6-Station controller, indoor/outdoor, plastic pedestal

## HFS FLOW SENSOR FCT FITTING MODELS

Model	Material	Dia (in)	Dia (mm)
FCT-100	Sch. 40 (white)	1	25
FCT-150	Sch. 40 (white)	1.5	37
FCT-158	Sch. 80 (gray)	1.5	37
FCT-200	Sch. 40 (white)	2	50
FCT-208	Sch. 80 (gray)	2	50
FCT-300	Sch. 40 (white)	3	75
FCT-308	Sch. 80 (gray)	3	75
FCT-400	Sch. 40 (white)	4	100

All tees are glue/slip type fittings.



## Dual Models

- Decoder station sizes available: 1, 2
- Max. distance to decoder, 14 AWG wire path: 5,000 ft; 12 AWG wire path 7,500 ft.
- Max. recommended distance, decoder to solenoid: 100 ft
- Field programmable:
  - Dual decoder module display and push button programming makes it easy to program decoders at the controller itself
  - Dual decoders can be field programmed with the Hunter ICD-HP. No need to remove decoders from the two-wire path
- Decoder module displays decoder operation and diagnostic information including current draw in milliamps
- Can operate up to 48 stations of combined decoder and conventional control making system retrofit easy
- Dual-S external surge protection
- Waterproof connectors for connection to two-wire path supplied with all Dual decoders and Dual-S surge protection
- Number of 2-wire paths: 3

## DUAL MODELS

DUAL48M = Dual decoder output module. Plug-in module converts any I-Core controller to 2-wire decoder system (up to 48 stations maximum)

DUAL-1 = Dual 1-station decoder (includes 2 DBRY-6 connectors)

DUAL-2 = Dual 2-station decoder (includes 2 DBRY-6 connectors)

DUAL-S = Dual surge arrester (includes 4 DBRY-6 connectors)

## ID WIRE MODEL GUIDE

### 14 AWG/2 MM<sup>2</sup> STANDARD DECODER CABLE

ID1GRY	Gray jacket
ID1PUR	Purple jacket
ID1YLW	Yellow jacket
ID1ORG	Orange jacket
ID1BLU	Blue jacket
ID1TAN	Tan jacket

### 12 AWG/3.3 MM<sup>2</sup> LONG RANGE, HEAVY-DUTY DECODER CABLE

ID2GRY	Gray jacket
ID2PUR	Purple jacket
ID2YLW	Yellow jacket
ID2ORG	Orange jacket
ID2BLU	Blue jacket
ID2TAN	Tan jacket