- 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 Clik 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
**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.
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.

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.
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?
All tees are glue/slip type fittings.

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

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**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Material</th>
<th>Dia (in)</th>
<th>Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCT-100</td>
<td>Sch. 40 (white)</td>
<td>1</td>
<td>25</td>
</tr>
<tr>
<td>FCT-150</td>
<td>Sch. 40 (white)</td>
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</tr>
<tr>
<td>FCT-158</td>
<td>Sch. 80 (gray)</td>
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<td>FCT-200</td>
<td>Sch. 40 (white)</td>
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<tr>
<td>FCT-208</td>
<td>Sch. 80 (gray)</td>
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<tr>
<td>FCT-300</td>
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<tr>
<td>FCT-400</td>
<td>Sch. 40 (white)</td>
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<td>100</td>
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</tbody>
</table>

All tees are glue/slip type fittings.

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**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**

<table>
<thead>
<tr>
<th>14 AWG/2 MM² STANDARD DECODER CABLE</th>
<th>12 AWG/3.3 MM² LONG RANGE, HEAVY-DUTY DECODER CABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID1GRY Gray jacket</td>
<td>ID1GRY Gray jacket</td>
</tr>
<tr>
<td>ID1PUR Purple jacket</td>
<td>ID1PUR Purple jacket</td>
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<tr>
<td>ID1YLW Yellow jacket</td>
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<tr>
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