

# ACC2 DECODER

## Controller

RESIDENTIAL & COMMERCIAL IRRIGATION  
*Built on Innovation®*

**Hunter®**



Powerful.  
Intelligent.  
Flexible.

# ACC2 Decoder

*Powerful. Intelligent. Flexible.*

Hunter's next-generation ACC2 Decoder controller provides powerful irrigation management and monitoring capabilities for complex commercial projects.

The ACC2 Decoder controller is specifically designed to manage Hunter ICD decoders on large projects, and is expandable to 225 stations. The controller offers extreme flexibility, with 32 independent programs, 10 start times, and a variety of overlapping, stacking, and management configurations.

The powerful Flow Manager takes full advantage of sophisticated irrigation designs, watering as much as possible in the shortest possible amount of time — up to 30 simultaneous solenoids (20 per output module).

The all-new design features a full-color, backlit LCD display in a reversible facepack that operates all functions in either position, making field service a breeze. Finally, advanced features such as Flow Monitoring deliver fast diagnostics of abnormal flow conditions and accurate histories for up to six flow zones.

For the ultimate reliability in large-scale commercial irrigation management, the ACC2 Decoder controller is second to none.



The ACC2 Decoder controller uses two-wire decoder technology to control hundreds of stations.

The reversible facepack has a full-color, easy-to-read backlit display. The facepack is fully operational in either position, allowing programming and diagnostics while facing the modules and wiring.



# ACC2 Specifications

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Robust functionality allows for maximum design flexibility and easy installation in the field.

## Features and Benefits

- Number of stations: 75 to 225
- Type: modular decoder
- Enclosure: outdoor metal, stainless steel, plastic pedestal
- Full-color, high-resolution backlit display (reversible)
- Independent programs: 32
- Start times per program: 10
- Station run times: 15 seconds to 12 hours
- Optional Block programming for up to 64 groups of up to eight stations
- Up to 30 simultaneous solenoids (20 per output module)
- Optional Wi-Fi interface
- Real-time flow monitoring (up to six flow meters and flow zones)
- Up to six Pump/Master Valve outputs, Normally Open or Normally Closed
- Flow Management (runs flow zones to specified capacity)
- Monthly flow budgeting
- Built-in Solar Sync® logic/Solar Sync Delay feature
- SD card updates and log storage
- 12 selectable languages

## Electrical Specifications

- Transformer input: 120/230 VAC, 50/60 Hz
- Max AC current draw: 120 VAC, 2 A/230 VAC, 1 A
- Transformer output: 24 VAC, ~3 A
- P/MV outputs (24 VAC): up to six; three dedicated outputs (0.8 mA) or optional assignment to decoders
- Simultaneous solenoid operation: up to 30 (20 per output module)
- Sensor inputs: three Klik, one Solar Sync, and six flow sensor

## Advanced Features

- Operates all Hunter ICD decoders
- Three two-wire paths per output module
  - Up to 10,000' (3 km) on 14 AWG (2 mm<sup>2</sup>) wire
  - Up to 15,000' (4.5 km) on 12 AWG (3.3 mm<sup>2</sup>) wire
- Replaceable automotive fuses included in each output module
- P/MV and flow sensor assignments either locally or via two-wire path
- Decoder inventory and update via two-wire path
- Decoder/solenoid finder
- Wire Test Mode for field diagnostics
- ICD-HP wireless programmer compatible
- Conditional Response programming allows program or station activation on sensor input

## Approvals

- CE, UL, c-UL, RCM, FCC
- Enclosure ratings:
  - Steel, IP44
  - Plastic pedestal, IP24



### ACC2 DECODER: WALL MOUNT

Height	15.7" (40 cm)
Width	15.7" (40 cm)
Depth	6.8" (18 cm)

Model	Description
A2C-75D-M	75-station gray steel wall mount, outdoor
A2C-75D-SS	75-station stainless steel wall mount, outdoor



### METAL PEDESTAL

Height	37" (94 cm)
Width	15.5" (39 cm)
Depth	5" (13 cm)

Model	Description
ACC-PED	Gray metal pedestal, for use with ACC2
PED-SS	Stainless steel pedestal, for use with ACC2



### PLASTIC PEDESTAL

Height	39.5" (100 cm)
Width	23.5" (60 cm)
Depth	17" (43 cm)

Model	Description
A2C-75D-PP	75-station plastic pedestal



### MODULES

Model	Description
A2C-D75	75-station decoder expansion module
A2C-F3	3-input flow meter expansion module
A2C-WI-FI	Internal Wi-Fi module

Each A2C-D75 output module is color-coded for easy installation, and includes standard automotive fuses for additional surge protection.



### DECODER MODULES

1-, 2-, 4-, or 6-station decoders, and 2-input sensor decoders with surge suppression and ground wire

ACC2 Decoder is designed for operation with the field-proven, ultra-reliable ICD family of decoders.



### ICD-HP

Wireless handheld decoder programmer

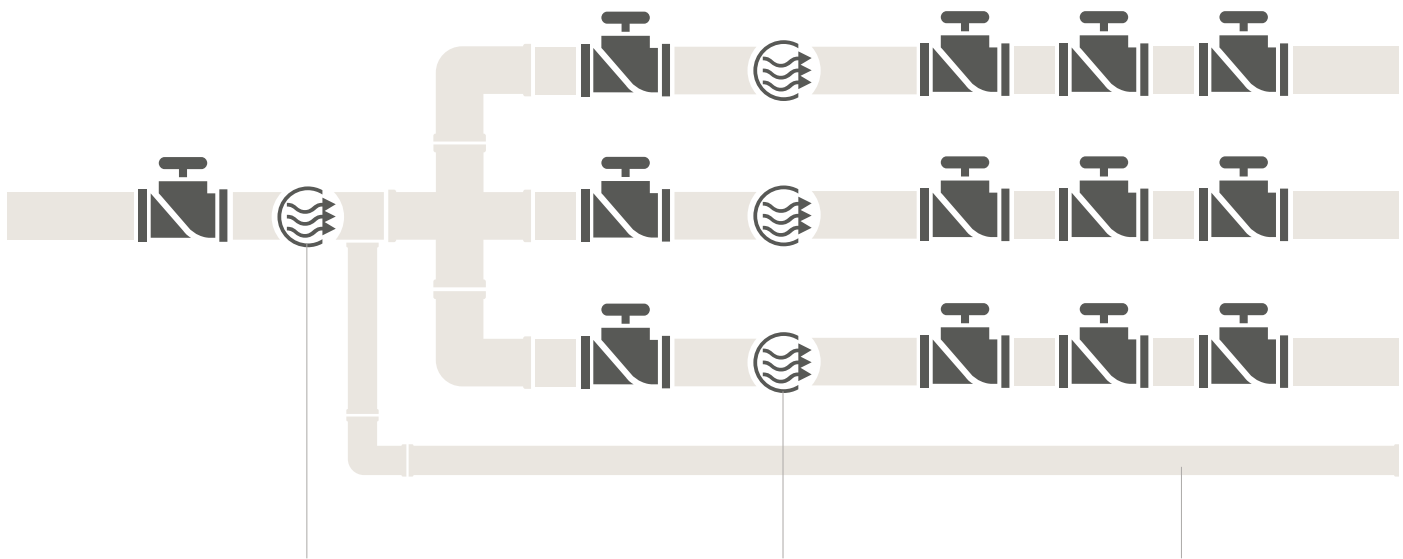
The ICD-HP permits a full range of programming, diagnostic, and operational features, without removal of waterproof connectors.

# FLOW Management

*Multiple stations. Safe flow targets.*

The ACC2 includes a suite of flow management features for up to six separate flow zones, including flow scheduling, and real-time flow monitoring for the ultimate in system protection. Water source monitoring allows a new and separate level of security above the flow zone level, including mainline protection and monthly budgeting.

- Includes three flow inputs and three pump/master valve outputs, both expandable to six
- Full normally open and normally closed P/MV support
- Flow scheduling in up to six flow zones (automatically operates stations to user programmable flow target)
- Real-time flow monitoring of up to six flow zones
- Max flow and unscheduled flow alarms and allowances for manual watering
- Flow budgeting for monthly usage limits
- MainSafe™ master water source programming to protect long mainline runs
- Expanded range of compatible flow sensors



*One MainSafe sensor and normally open master valve monitors the entire water source, including total monthly usage.*

*Three separate Flow Zones each schedule stations on to safe, optimum target flow rates for the specific diameter of mainline pipe.*

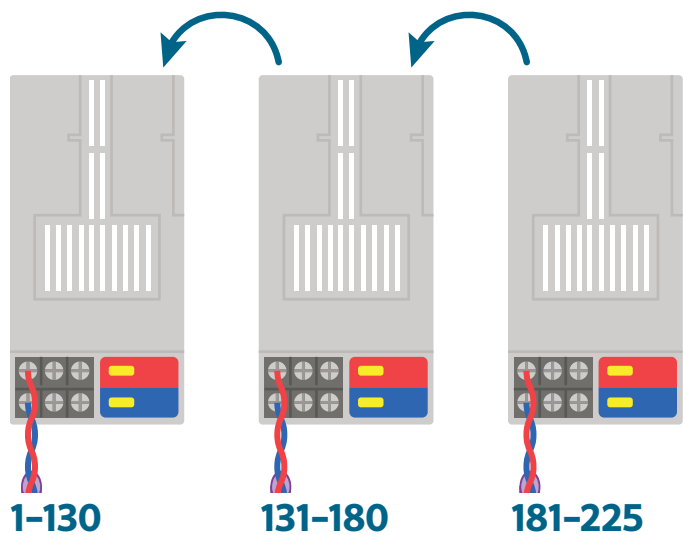
*One manual irrigation line provides always-on irrigation on demand, but is still monitored by the upstream MainSafe master.*

# FLEXIBILITY *in Design*

Each A2C-D75 decoder output module enables 75 stations, and allows up to three two-wire paths to the field. You can easily connect more than 75 stations to a single wire path, by assigning stations from one module to another.

As long as all three modules are present, you can install 200+ stations on a single wire path. This could, however, limit the total number of stations that can run simultaneously. See the Hunter Decoder Design Guide for complete details.

Example:



Station Assignments		
<input checked="" type="checkbox"/>	Enable Station Assignment Changes	
Decoder Module Station Assignments		
	Lower	Upper
Decoder Module #1	1	130
Decoder Module #2	131	180
Decoder Module #3	181	225



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.

A stylized, handwritten signature in white ink, appearing to read "G.R. Hunter".

Gregory R. Hunter, CEO of Hunter Industries

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

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