

# ICD

Hunter's premium two-wire decoders for long-distance, high-station-count ACC and ACC2 applications include two-way communications and integrated surge protection.

## KEY BENEFITS

- ICD decoders are compatible with Hunter ACC-99D and ACC2 Decoder controllers
- 1-, 2-, 4-, and 6-station versions provide maximum flexibility
- Sensor decoders allow flow and Clk sensor monitoring via the two-wire paths
- Field-programmable decoders accept station numbers directly, and do not require entering serial numbers into the control panel
  - Decoders can be programmed before installation at the controller interface
  - Wireless programming with ICD-HP allows for decoder programming or re-programming after installation to the two-wire path
- Integrated surge protection eliminates the need for extra surge protection devices
- Color-coded wiring connections simplify installation
- Industrial-grade DBRY-6 waterproof connectors included for two-wire path splices

## OPERATING SPECIFICATIONS

- Maximum recommended distance, decoder to solenoid: 150'
- Maximum distance to decoder via two-wire path:
  - 14 AWG wire path: 10,000'
  - 12 AWG wire path: 15,000'
- Approvals: UL, cUL, FCC, CE, RCM
- Decoder rating: IP68 submersible
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

- ICD-HP wireless handheld programmer, see [page 126](#)



### ICD-100, 200, ICD-SEN

Height: 3½"  
Width: 1½"  
Depth: ¾"

### ICD-400, 600

Height: 3½"  
Width: 1¾"  
Depth: 1½"

DECODER MODULES	
Model	Description
ICD-100	Single-station decoder with surge suppression and ground wire
ICD-200	2-station decoder with surge suppression and ground wire
ICD-400	4-station decoder with surge suppression and ground wire
ICD-600	6-station decoder with surge suppression and ground wire
ICD-SEN	2-input sensor decoder with surge suppression and ground wire

ID WIRE MODEL GUIDE			
14 AWG Decoder Cable		12 AWG Long-Range, Heavy-Duty Decoder Cable	
ID1GRY	Gray jacket	ID2GRY	Gray jacket
ID1PUR	Purple jacket	ID2PUR	Purple jacket
ID1YLW	Yellow jacket	ID2YLW	Yellow jacket
ID1ORG	Orange jacket	ID2ORG	Orange jacket
ID1BLU	Blue jacket	ID2BLU	Blue jacket
ID1TAN	Tan jacket	ID2TAN	Tan jacket

ID WIRE MAXIMUM WIRE RUNS	
ID 1 Wire	ID 2 Wire
5,000' with I-Core®/DUAL® systems	7,500' with I-Core/DUAL systems
10,000' with ACC/ICD systems	15,000' with ACC/ICD systems

# DUAL®

Save materials and labor by adding this optional plug-in module to upgrade conventional I-Core® systems to two-wire control.

## KEY BENEFITS

- DUAL48M output module enables up to 48 stations in any I-Core configuration
- 3 separate two-wire paths provide flexibility in system design and installation
- 1- and 2-station decoders for use with a variety of valve manifolds
- Field-programmable decoders do not require serial numbers
  - Decoders can be programmed before installation at the DUAL48M interface
  - Wireless programming with ICD-HP allows for decoder programming or re-programming after installation to the two-wire path
  - DUAL-S external surge protection module provides additional protection
- DUAL48M output module displays decoder programming, operation, and diagnostic information for assistance with maintenance and troubleshooting
- DUAL48M may be installed with conventional modules for hybrid operations
- Solenoid finder feature aids in locating decoders and valves in the field

## OPERATING SPECIFICATIONS

- Maximum recommended distance, decoder to solenoid: 100'
- Maximum distance to decoder via two-wire path:
  - 14 AWG wire path: 5,000'
  - 12 AWG wire path: 7,500'
- Approvals: UL, cUL, FCC, CE, RCM
- Decoder rating: IP68 submersible
- Warranty period: 5 years



### DUAL48M Decoder Output Module

Height: 1¾"  
Width: 4¾"  
Depth: 4"



### DUAL Decoders

Height: 3¾"  
Width: 1½"  
Depth: 7⁄8"

### Surge Arrester

Height: 27⁄8"  
Width: 17⁄8"  
Depth: 2"

DUAL		
Base Model	Plus	Description
IC-600-PL	DUAL48M	48-station controller, indoor/outdoor, plastic cabinet
IC-600-M	DUAL48M	48-station controller, indoor/outdoor, metal cabinet
IC-600-PP	DUAL48M	48-station controller, indoor/outdoor, plastic pedestal
IC-600-SS	DUAL48M	48-station controller, indoor/outdoor, stainless steel cabinet
DUAL Model	Description	
DUAL48M	DUAL decoder output module, up to 48-station 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 Decoder Cable		12 AWG Long-Range, Heavy-Duty Decoder Cable	
ID1GRY	Gray jacket	ID2GRY	Gray jacket
ID1PUR	Purple jacket	ID2PUR	Purple jacket
ID1YLW	Yellow jacket	ID2YLW	Yellow jacket
ID1ORG	Orange jacket	ID2ORG	Orange jacket
ID1BLU	Blue jacket	ID2BLU	Blue jacket
ID1TAN	Tan jacket	ID2TAN	Tan jacket