

# PENTEK Intellidrive™

## Water Pressure Control Center



**Homeowners with water pressure problems experience weak showers, unclean dishes, dry lawns and more.** The Pentek Intellidrive Water Pressure Control Center is an "Intelligent Variable Frequency Drive" that directs changes in submersible pump motor speed, responding to fluctuations in household demand. It maintains constant water pressure, regardless of how many people or appliances are using water at the same time.

### APPLICATIONS

Residential water systems, landscape irrigation, water transfer.

### SPECIFICATIONS

**Enclosure Dimensions:**

Width: 9.72" Height: 19" Depth: 6.93"

**Carton Dimensions:**

Width: 10.4" Height: 22.3" Depth: 9.4"

**Shipping Weight:** 22 pounds

**Ambient Temperature Range:**

-20°C (-4°F) to 50°C (122°F)

**Ambient Humidity Range:**

95% non-condensing

**Includes:**

Variable Frequency Drive

**Transducer:** 1/4" thread size, 18 NPT type

**Transducer Cable:** 10' length standard

### FEATURES

**4 MODELS MEET ALL YOUR NEEDS**

1/2 HP - 5 HP Capabilities

2-Wire, 3-Wire & 3-Phase in same unit

3-Phase Output (60 Hz/80 Hz)\*\*

**PUMP AND MOTOR LAST LONGER**

"Soft Start/Coast to Stop" minimizes mechanical stress.

Constant pressure eliminates frequent on/off "pressure cycling".

**ADVANCED CONTROL SYSTEM**

Needed for installation, system monitoring and troubleshooting.

Easy touchpad operation.

**GROUND DETECTION**

Detects and displays when there is a grounding problem.

Shuts down system until problem is corrected.

60Hz operation is recommended as the industry standard. Intermittent 80Hz operation is an acceptable option. \*\* Ongoing 80Hz operation may reduce the life of the pump and motor.

### ORDERING INFORMATION

MODEL NUMBER	MOTOR TYPE	HP RANGE	INPUT VOLTAGE	MAXIMUM OUTPUT AMPS	ENCLOSURE TYPE
PID10	2-WIRE* 1-PHASE	0.5 - 1 HP	190V - 265V	9.5A	NEMA 3R outdoor
	3-WIRE* 1-PHASE			7.5A	
	3-PHASE			5A	
PID20	2-WIRE* 1-PHASE	0.5 - 1.5 HP		11A	
	3-WIRE* 1-PHASE	0.5 - 2 HP		13.5A	
	3-PHASE			8.5A	
PID30	2-WIRE* 1-PHASE	0.5 - 1.5 HP		11A	
	3-WIRE* 1-PHASE	0.5 - 2 HP		13.5A	
	3-PHASE	0.5 - 3 HP		11.5A	
PID50	2-WIRE* 1-PHASE	0.5 - 1.5 HP		11A	
	3-WIRE* 1-PHASE	0.5 - 2 HP		13.5A	
	3-PHASE	0.5 - 5 HP		18A	

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### Keyhole Mount

For fast and easy installation

### LCD Information Center

Displays installation, status and fault information in easy-to-understand language instead of codes

### Ground Detection

Message Center shows if there is a grounding problem

### Multiple Accessory Inputs

Additional inputs allow use of multiple drive accessories at the same time

### Best-In-Class EMI/RFI Filter

Superior noise and interference protection, including AM radio signals

### Spacious Wiring Area

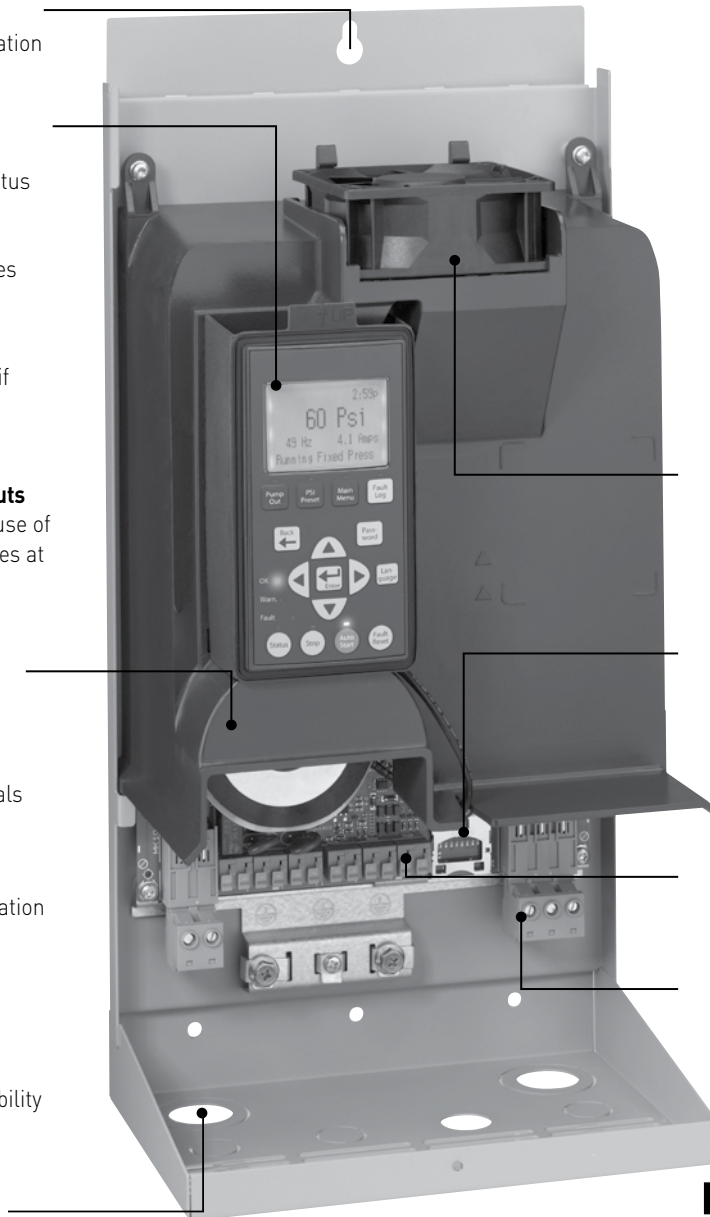
For fast and easy installation

### Programmable Input/Output Relays

Provide application flexibility

### Easy-Access Conduit Openings

Align with appropriate terminals for straight-in accessibility. Fits 1/2", 3/4" or 1-1/4"



### Electronic Pressure Transducer

More accurate and reliable than mechanical pressure switch, with piezo resistive technology designed to resist water hammer

### Temperature-Sensitive Intelligent Fan

Operates when needed for quiet operation

### SD Card Slot

For easy software updates when provided by manufacturer

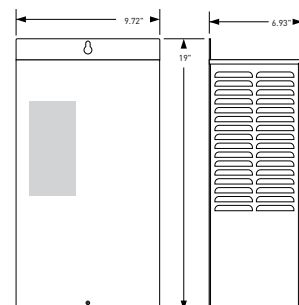
### Spring Terminals

For secure connections and easy installation without special tools

### Removable Terminal Blocks

For easy wiring of motor and power supply – field replaceable

### OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

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PENTEK INTELLIDRIVE ACCESSORIES	
MODEL NO.	DESCRIPTION
VFD-LINK	Wireless Translator for Intellidrive
VFD-SGA	Surge arrestor kit, line and load
VFD-SGA-LN	Surge arrestor kit, line side
VFD-SGA-LD	Surge arrestor kit, load side
VFD-ALT	VFD Alternating panel
VFD-WS	VFD Water sensor with 15' cable
PID-GRP	Cable mounting and nut, 1/2 NPT, black, qty. 10
VFD-SCRN	Filter Kit

PENTEK INTELLIDRIVE TRANSDUCER CABLES		
PART NUMBER	DESCRIPTION	REPLACES
VFD-10TCB	Transducer Cable 10FT 3R	U18-1593
VFD-20TCB	Transducer Cable 20FT 3R	U18-1594
VFD-50TCB	Transducer Cable 50FT 3R	U18-1595
VFD-100TCB	Transducer Cable 100FT 3R	U18-1596
VFD-200TCB	Transducer Cable 200FT 3R	U18-1598

PENTEK INTELLIDRIVE REPAIR PARTS			
MODEL NO.	ITEM	DESCRIPTION	MANUFACTURER
PID-CON2	2-Pole Connector (Line In)	2-Pole Connector (Line In)	Pentek®
PID-CON3	3-Pole Connector (Line Out)	3-Pole Connector (Line Out)	Pentek
PID-FAN	Replacement Fan	Replacement Fan	Pentek
PID-HMI	Replacement Keypad	Replacement Keypad	Pentek
U17-1561-R	Transducer (PID Control)	0 – 100 psig, 4~20ma, less lead	Pentek

Pentek Transducer for use with Pentek Intellidrive and Intellidrive XL.



**VFD-WS**  
VFD WATER SENSOR WITH 15' CABLE



**VFD-ALT**  
VFD ALTERNATING PANEL



**VFD-LINK**  
WIRELESS TRANSLATOR FOR INTELLIDRIVE



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