

PENTEK INTELLIDRIVE

# Whole home constant pressure system

Homeowners with low water pressure can experience weak showers, unclean dishes, dry lawns and more. Pentair Pentek Intellidrive Constant Pressure System™ is a variable frequency drive that directs changes in submersible pump motor speed, responding to fluctuations in household demand and includes built-in system protection. This device helps to maintain constant water pressure for private wells.

## APPLICATIONS

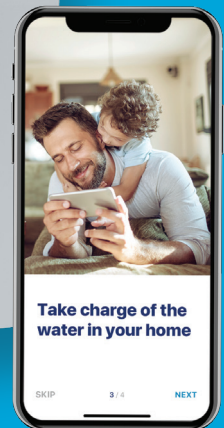
Residential water systems, landscape irrigation and water transfer use.

## 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

## VFD-LINK SPECIFICATIONS

- ◆ 900MHz Communication
- ◆ 100ft range between Communication Hub device and Gateway. May extend additional 300ft with Cat5e cable
- ◆ Includes: Communication Hub, Gateway, Cat5e cable, power adapters, and cord grip.



Start protecting your home today at  
[Pentair.com/Pentek](https://Pentair.com/Pentek)

# FEATURES

## FEATURES

### 4 Models for More Installation Opportunities

- ◆ 1/2 HP - 5 HP Capabilities
- ◆ All in the same unit; 2-Wire, 3-Wire & 3-Phase
- ◆ Submersible motors
- ◆ 3-Phase Above Ground motors
- ◆ 1-Phase Input \*230V)
- ◆ 80 Hz 3-Phase Output option\*\*

### Designed to Last

- ◆ "Soft Start/Coast to Stop" minimizes mechanical stress.
- ◆ Constant pressure helps to eliminate frequent on/off pressure cycling

\*\* Ongoing 80Hz operation may reduce the life of the pump and motor.

## ORDERING INFORMATION

MODEL NUMBER	MOTOR TYPE	HP RANGE	MAXIMUM OUTPUT AMPS	INPUT VOLTAGE	ENCLOSURE TYPE
PID10	2-WIRE 1-PHASE	0.5 - 1 HP	9.5A	190V - 265V	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		

CATALOG NUMBER	DESCRIPTION	ENCLOSURE	WEIGHT
VFD-LINK	Wireless Translator for Pentek Intellidrive	NEMA 1	2

## GET CONNECTED

### Add the VFD-LINK Accessory for Remote Monitoring

- ◆ **Ease of installation:** Simply connect to Pentair Pro App, install two wires to the Pentek Intellidrive™ Constant Pressure System and plug in the communication hub and gateway. Easy touchpad operation allows for installation, system monitoring and troubleshooting.
- ◆ **Alerts for common issues:** Provides notifications to the homeowner who can turn the drive on and off remotely.
- ◆ **System Status:** View system status and drive settings remotely for added troubleshooting.
- ◆ **Can enhance service experience and opportunities:** With your customer's permission, you can receive notifications and alerts. This can create opportunities for you as the dealer to offer additional services based on status information.

# FEATURES

## 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

## EMI/RFI FILTER

Superior noise and interference protection, including AM radio signals

## SPACIOUS WIRING AREA

Work with ease

## PROGRAMMABLE INPUT/OUTPUT RELAYS

Provides 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 quieter operation

## SD CARD SLOT

For easy software updates when provided by manufacturer

## SPRING TERMINALS

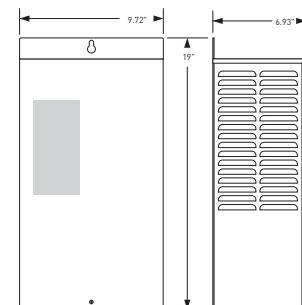
For secure connections and easy installation without special tools

## REMOVABLE TERMINAL BLOCKS

For easier wiring of motor and power supply - field replaceable



## OUTLINE DIMENSIONS



# ACCESSORIES

## PENTEK INTELLIDRIVE™ CONSTANT PRESSURE SYSTEM 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
VFD-SCRN	Filter Kit



**VFD-WS**  
VFD Water sensor with 15' cable

## PENTEK INTELLIDRIVE TRANSDUCER CABLES

PART NUMBER	DESCRIPTION
VFD-10TCB	Transducer Cable 10FT 3R
VFD-20TCB	Transducer Cable 20FT 3R
VFD-50TCB	Transducer Cable 50FT 3R
VFD-100TCB	Transducer Cable 100FT 3R
VFD-200TCB	Transducer Cable 200FT 3R



**VFD-ALT**  
VFD Alternating panel

## PENTEK INTELLIDRIVE REPAIR PARTS

MODEL NO.	ITEM	DESCRIPTION
PID-CON2	2-Pole Connector (Line In)	2-Pole Connector (Line In)
PID-CON3	3-Pole Connector (Line Out)	3-Pole Connector (Line Out)
PID-FAN	Replacement Fan	Replacement Fan
PID-HMI	Replacement Keypad	Replacement Keypad
U17-1561-R	Transducer (PID Control)	0 - 100 psig, 4~20ma, less lead
U17-2000	Transducer (PID Control)	0 - 300 psig, 4~20ma, less lead

Pentair Pentek® Transducer for use with Pentek Intellidrive and Intellidrive XL.



**VFD-LINK**  
Wireless Translator for Pentek Intellidrive



ASSEMBLED IN THE USA WITH FOREIGN AND DOMESTIC COMPONENTS

293 Wright Street | Delavan, WI 53115 | United States | 888-782-7483 | F: 800-426-9446 | [pentair.com](http://pentair.com)

All indicated Pentair trademarks and logos are property of Pentair. Third party registered and unregistered trademarks and logos are the property of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

P13257-SS (09-21-20) ©2020 Pentair. All Rights Reserved.