

# PENTEK INTELLIDRIVE™

## WATER PRESSURE CONTROL CENTER

### CONSTANT PRESSURE FOR WELL PUMP SYSTEMS

#### **For use with both Submersible and Above Ground Well Pumps to Control Changes in Water Demand**

Most homeowners with well systems know what happens when demand for water changes. If they're taking a shower, water pressure drops when someone starts the dishwasher or turns on a faucet. Weak showers, unclean dishes and other water pressure problems become frustrating daily experiences.

#### **A "Variable Frequency Drive" for Submersible or Above Ground Well Pumps.**

The Pentek Intellidrive™ Water Pressure Control Center directs changes in pump motor speed, responding to fluctuations in demand. If water pressure starts dropping, an electronic pressure transducer signals the drive to accelerate the pump motor to increase water volume going into the home.

#### **The Benefit? Strong, equal pressure, everywhere.**

Homeowners will recognize the difference right away. Water flows smoothly and evenly throughout the home. Regardless of changes in demand, water pressure stays the same: in the shower, the dishwasher, and from every other faucet and fixture.

And when homeowners are outside, they'll enjoy a lush, green lawn and landscaping. Sprinkler systems will perform at their best, with consistent spray patterns, constantly pressurized to achieve complete coverage.

#### **The pump and motor will last longer.**

Pentek Intellidrive™ features "Soft Start/Coast to Stop" design, which minimizes mechanical stress. And during long-running applications like lawn irrigation, pressure-cycling is eliminated...another system stress reducer. Pentek Intellidrive Leading-edge technology for a premium residential water system that makes life better!



# ADVANCED TECHNOLOGY. SUPERIOR PERFORMANCE.

## 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



# AN INTELLIGENT CONTROL... SIMPLE TO OPERATE, EASY TO UNDERSTAND.

**No other variable frequency drive provides such an effective operator interface** with easy touchpad operation and a spectrum of features that allows easy configuration for most residential water control applications. And the LCD Information Center communicates clearly in words, instead of confusing light codes.

## START-UP IS SIMPLE...

ENTER MOTOR PHASE

ENTER MOTOR TYPE

ENTER SERVICE FACTOR AMPS

ENTER CURRENT TIME

ENTER CURRENT DATE



1



2



3



4



5

6

CHOOSE "PUMP OUT"  
OR "AUTO START"

**BACKLIT LCD DISPLAY**

**PUMP-OUT BUTTON**

For cleaning of new wells and fixed frequency operation

**PSI PRESET**

Sets pressure to any value desired

**LED STATUS INDICATION**



**DIAGNOSTICS INDICATOR**

Self diagnostic messaging for ease of service

**FAULT LOG**

Stores 15 faults with timestamps

**KEYPAD LOCKOUT**

For security against tampering and unintended adjustments

**MULTI-LINGUAL OPTIONS**

English, French or Spanish

**AUTO-START**

With automatic line-fill functionality, providing constant pressure operation

# Product Line Overview

MODEL NUMBER	MOTOR TYPE	MAXIMUM HP	INPUT VOLTAGE	OUTPUT AMPS	ENCLOSURE RATING
PID10	1-PHASE 2-WIRE*	1.0	190-265	9.5	3R
	1-PHASE 3-WIRE	1.0	190-265	7.5	3R
	3-PHASE	1.0	190-265	5.0	3R
PID20	1-PHASE 2-WIRE*	1.5	190-265	11.0	3R
	1-PHASE 3-WIRE	2.0	190-265	13.5	3R
	3-PHASE	2.0	190-265	8.5	3R
PID50	1-PHASE 2-WIRE*	1.5	190-265	11.0	3R
	1-PHASE 3-WIRE	2.0	190-265	13.5	3R
	3-PHASE	5.0	190-265	18.0	3R

\*Pentek® (PSC) 2-wire motors only

