



PENTEK Intellidrive™



The PENTEK Intellidrive is a residential water pressure management system that maintains constant pressure output – regardless of fluctuating demand. This variable frequency drive system automatically adjusts motor speeds via an electronic pressure transducer.

APPLICATIONS

- Residential water systems, landscape irrigation, water transfer.

SPECIFICATIONS

Compatibility –

1-Phase: 2- or 3-wire

3-Phase: Suitable for submersible or above ground applications

Input – 230V, 1-phase

Output – 230V, 1-phase, 2-wire (1/2 HP - 3/4 HP)

230V, 1-phase, 3-wire (1/2 HP - 2 HP)

230V, 3-phase, 3-wire (1/2 HP - 3 HP)

Ambient Temperature Range – -4 – 104°F (-20 – 40°C)

Ambient Humidity Range – 95% non-condensing

FEATURES

Active Power Correction – Input voltage range 190V - 265V 1-phase; constant output voltage for 230V motor.

Built-In Pump/Motor Protection – Extends life of your investment.

Keypad with LCD Display – Real time status indication; local pump control.

Maintains Constant Pressure Output – Regardless of fluctuating demand.

Extends Life of Pump and Motor – VFD has Soft Start / Coast-to-Stop Functionality to minimize mechanical stress on pumping system.

Space-Saving Solution – A system using a VFD drive utilizes a smaller pressure tank to save space.

Energy Savings – Variable speed based on water demand.

ORDERING INFORMATION

Catalog Number	Motor Type	Maximum HP	Input Voltage	Maximum Output Amps	Enclosure Type
1-Phase Input / 1-Phase Output					
PID-6-9A7-1	2-Wire*/1-Phase	3/4	190V - 265V	9.7A	NEMA 1 Indoor
	3-Wire/1-Phase	1			
PID-6-9A7-3	2-Wire*/1-Phase	3/4	190V - 265V	9.7A	NEMA 3R Outdoor
	3-Wire/1-Phase	1			
PID-6-12A2-1	2-Wire*/1-Phase	3/4	190V - 265V	12.2A	NEMA 1 Indoor
	3-Wire/1-Phase	2			
PID-6-12A2-3	2-Wire*/1-Phase	3/4	190V - 265V	12.2A	NEMA 3R Outdoor
	3-Wire/1-Phase	2			
1-Phase Input / 3-Phase Output					
PID-1-4A7-1	3-Wire/3-Phase**	1	190V - 265V	4.7A	NEMA 1 Indoor
PID-1-4A7-3	3-Wire/3-Phase**	1	190V - 265V	4.7A	NEMA 3R Outdoor
PID-1-7A6-1	3-Wire/3-Phase**	2	190V - 265V	7.6A	NEMA 1 Indoor
PID-1-7A6-3	3-Wire/3-Phase**	2	190V - 265V	7.6A	NEMA 3R Outdoor
PID-1-10A1-1	3-Wire/3-Phase**	3	190V - 265V	10.1A	NEMA 1 Indoor
PID-1-10A1-3	3-Wire/3-Phase**	3	190V - 265V	10.1A	NEMA 3R Outdoor

*Only compatible with PENTEK® brand 2-Wire motors. **Submersible or above ground applications.

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Keyhole Mount

For fast / easy installation

User Interface with LCD Display

Quick installation and status indication in easy-to-understand language (not codes)

Robust EMI / RFI Filter

Superior noise and interference protection (including AM radio)

Spacious Wiring Area

Easy installation

Electronic Pressure Transducer

Robust design – more accurate, durable and reliable than mechanical pressure switch. Features piezo resistive technology specially designed to withstand water hammer



Temperature-Sensitive Intelligent Fan

Operates as necessary, supporting quieter operation and conserving energy and maintenance costs

Spring Terminals

Easy installation and secure connections – no special tools required

Programmable Input / Output Relays

Support application versatility

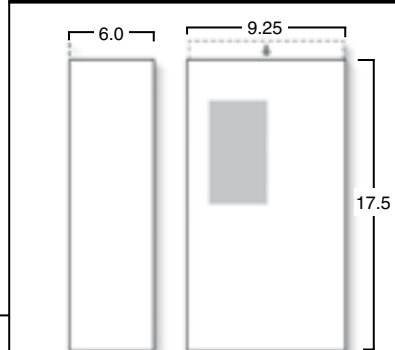
Removable Terminal Blocks

Ease of wiring motor and power supply – field replaceable

Accessible Conduit Openings

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

OUTLINE DIMENSIONS



Dimensions are for estimating purposes only.