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.

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**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>MOTOR TYPE</th>
<th>HP RANGE</th>
<th>INPUT VOLTAGE</th>
<th>MAXIMUM OUTPUT AMPS</th>
<th>ENCLOSURE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PID10</td>
<td>2-WIRE* 1-PHASE</td>
<td>0.5 – 1 HP</td>
<td>190V – 265V</td>
<td>9.5A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-WIRE* 1-PHASE</td>
<td></td>
<td></td>
<td>7.5A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-PHASE</td>
<td></td>
<td></td>
<td>5A</td>
<td></td>
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<tr>
<td>PID20</td>
<td>2-WIRE* 1-PHASE</td>
<td>0.5 – 1.5 HP</td>
<td></td>
<td>11A</td>
<td>NEMA 3R outdoor</td>
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<tr>
<td></td>
<td>3-WIRE* 1-PHASE</td>
<td>0.5 – 2 HP</td>
<td></td>
<td>13.5A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-PHASE</td>
<td></td>
<td></td>
<td>8.5A</td>
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<tr>
<td>PID30</td>
<td>2-WIRE* 1-PHASE</td>
<td>0.5 – 1.5 HP</td>
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<td>11A</td>
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<tr>
<td></td>
<td>3-WIRE* 1-PHASE</td>
<td>0.5 – 2 HP</td>
<td></td>
<td>13.5A</td>
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<tr>
<td></td>
<td>3-PHASE</td>
<td></td>
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<td>11.5A</td>
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<td>PID50</td>
<td>2-WIRE* 1-PHASE</td>
<td>0.5 – 1.5 HP</td>
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<tr>
<td></td>
<td>3-WIRE* 1-PHASE</td>
<td>0.5 – 2 HP</td>
<td></td>
<td>13.5A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-PHASE</td>
<td></td>
<td></td>
<td>18A</td>
<td></td>
</tr>
</tbody>
</table>
PENTEK Intellidrive™
Water Pressure Control Center

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

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

Programmable Input/Output Relays
Provide application flexibility

Spacious Wiring Area
For fast and easy installation

Best-In-Class EMI/RFI Filter
Superior noise and interference protection, including AM radio signals

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

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OUTLINE DIMENSIONS
Dimensions (in inches) are for estimating purposes only.
# PENTEK Intellidrive™

Water Pressure Control Center

## PENTEK INTELLIDRIVE ACCESSORIES

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFD-LINK</td>
<td>Wireless Translator for Intellidrive</td>
</tr>
<tr>
<td>VFD-SGA</td>
<td>Surge arrestor kit, line and load</td>
</tr>
<tr>
<td>VFD-SGA-LN</td>
<td>Surge arrestor kit, line side</td>
</tr>
<tr>
<td>VFD-SGA-LD</td>
<td>Surge arrestor kit, load side</td>
</tr>
<tr>
<td>VFD-ALT</td>
<td>VFD Alternating panel</td>
</tr>
<tr>
<td>VFD-WS</td>
<td>VFD Water sensor with 15` cable</td>
</tr>
<tr>
<td>PID-GRP</td>
<td>Cable mounting and nut, 1/2 NPT, black, qty. 10</td>
</tr>
<tr>
<td>VFD-SCRN</td>
<td>Filter Kit</td>
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</table>

## PENTEK INTELLIDRIVE TRANSDUCER CABLES

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>REPLACES</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFD-10TCB</td>
<td>Transducer Cable 10FT 3R</td>
<td>U18-1593</td>
</tr>
<tr>
<td>VFD-20TCB</td>
<td>Transducer Cable 20FT 3R</td>
<td>U18-1594</td>
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<tr>
<td>VFD-50TCB</td>
<td>Transducer Cable 50FT 3R</td>
<td>U18-1595</td>
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<tr>
<td>VFD-100TCB</td>
<td>Transducer Cable 100FT 3R</td>
<td>U18-1596</td>
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<tr>
<td>VFD-200TCB</td>
<td>Transducer Cable 200FT 3R</td>
<td>U18-1598</td>
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## PENTEK INTELLIDRIVE REPAIR PARTS

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PID-CON2</td>
<td>2-Pole Connector (Line In)</td>
<td>2-Pole Connector (Line In)</td>
<td>Pentek®</td>
</tr>
<tr>
<td>PID-CON3</td>
<td>3-Pole Connector (Line Out)</td>
<td>3-Pole Connector (Line Out)</td>
<td>Pentek</td>
</tr>
<tr>
<td>PID-FAN</td>
<td>Replacement Fan</td>
<td>Replacement Fan</td>
<td>Pentek</td>
</tr>
<tr>
<td>PID-HMI</td>
<td>Replacement Keypad</td>
<td>Replacement Keypad</td>
<td>Pentek</td>
</tr>
<tr>
<td>U17-1561-R</td>
<td>Transducer (PID Control)</td>
<td>0 – 100 psig, 4–20ma, less lead</td>
<td>Pentek</td>
</tr>
</tbody>
</table>

Pentek Transducer for use with Pentek Intellidrive and Intellidrive XL.