IN-PROCESS CONTROL AND MONITORING FOR PRESS AND RIVET MACHINES

The Process Inspector® is a powerful PLC with a built-in HMI Operator Panel, comprising a 5.7” color touch-screen display that meets the industry requirements for in-process quality monitoring of force and distance for presses and rivet machines.

This unique control is extremely easy to operate with the precise measurement and collection of force and distance data in each machine cycle, allowing up to 49 different recipes to be generated automatically with an easy to follow tutorial for simple data input. Typical time to generate a recipe is less than 5 minutes.

The Process Inspector offers simple calibration of strain gage, piezoelectric* and potentiometric sensors with easy input of high low distance and force criteria specific to your applications. There is no difficult tuning or complicated setup as with competitors’ products.

The Process Inspectors PLC/Graphic HMI in-process quality monitoring system introduces an unbeatable price-performance ratio, enabling users to enjoy the advanced features of the operator touchscreen, in-process monitoring system and the PLC machine control all-in-one, while maintaining low budget, reduced setup time, minimum wiring and configuration.

Call: 502-509-5188
or vist us on-line www.processinspector.com
**Simple to Use Interface + Accuracy and Precision**

**Screens Views**

**Run Screen**
- Easy to read force and distance data.
- Banner with status and alarms
- Current machine position
- Good, bad and total cycles

**Tool Information**
- Included with every program
- Tooling and component checklist
- Processing and setup notes
- Operator accessible

**Rivet Specification**
- Password protected
- Set point correlates to actual print values
- Steam line your cycle time using dwell and creep adjustments
- Step by step tutorial under the more info button

**Power Head Setup**
- Specific machine settings for each program
- Power head positioning / in or out of range, crash safety feature
- Machine operates on any setup screen to quickly determine the optimum settings

**Actual Rivet Height**
- Teach the controller your rivet height
- The capability to run while in set up externally simplifies the process.
- Store your cycle time to document your flow control settings.

**Data Collection**
- Last 10 machine cycles
- Data collection via RS232 or Ethernet
- Program and technical assistance via Ethernet.

**Page Select**
- Easy to navigate thru the system.
- Page by page instruction.
- Easy enough to set up Recipes in 5 minutes.
- Two levels of operation: Supervisor/Operator
- Prewired I/O for expanded machine functions

**Right LVDT Calibrate**
- Simple Calibration just press Set Zero!
- Calibrate in seconds unlike the competitors.
- Machine can cycle from this screen allowing for easy visual conformation of set point.

---

**General Specifications and Highlights**

<table>
<thead>
<tr>
<th>Model</th>
<th>Process Inspector V570 PLC/HMI All-in-One</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLC</td>
<td>24 Inputs, 23 Outputs Expandable</td>
</tr>
<tr>
<td>Touch-panel</td>
<td>5.7&quot; QVGA 256 Color display</td>
</tr>
<tr>
<td>Measurement Type</td>
<td>Force/Distance (Real-time threshold)</td>
</tr>
<tr>
<td>Monitoring</td>
<td>Force/Distance/Time</td>
</tr>
<tr>
<td>Measuring Range</td>
<td>Configurable</td>
</tr>
<tr>
<td>Force Range</td>
<td>Configurable</td>
</tr>
<tr>
<td>Sensor Inputs</td>
<td>Voltage module and charge amplifier*</td>
</tr>
<tr>
<td>Resolution</td>
<td>14 Bit</td>
</tr>
<tr>
<td>Voltage</td>
<td>0-10V, 0-20mA, 4-20mA</td>
</tr>
<tr>
<td>Capacity</td>
<td>49 Recipes</td>
</tr>
<tr>
<td>Development Time of Recipe</td>
<td>5 Minutes</td>
</tr>
<tr>
<td>Sensor Calibration</td>
<td>5 Minutes</td>
</tr>
<tr>
<td>Simple Tutorial</td>
<td>5 Screens</td>
</tr>
<tr>
<td>Operation – (Any screen)</td>
<td>Quickly Determine Optimum Settings</td>
</tr>
<tr>
<td>Maintenance Screens</td>
<td>Preventive with alarms</td>
</tr>
<tr>
<td>Machine types</td>
<td>Presses and Riveters</td>
</tr>
<tr>
<td>Data Collection</td>
<td>Last 10 cycles on display</td>
</tr>
<tr>
<td>Export</td>
<td>RS232 or Ethernet</td>
</tr>
<tr>
<td>Read-out configuration</td>
<td>Pre and/or post-process height (DRO)</td>
</tr>
</tbody>
</table>

---

**Model**
- Process Inspector V570 PLC/HMI All-in-One

**PLC**
- 24 Inputs, 23 Outputs Expandable

**Touch-panel**
- 5.7" QVGA 256 Color display

**Measurement Type**
- Force/Distance (Real-time threshold)

**Monitoring**
- Force/Distance/Time

**Measuring Range**
- Configurable

**Force Range**
- Configurable

**Sensor Inputs**
- Voltage module and charge amplifier*

**Resolution**
- 14 Bit

**Voltage**
- 0-10V, 0-20mA, 4-20mA

---

Process Inspector, LLC, 881 Butler Branch Road, Columbia, KY, 42728  
Phone: 502-509-5188, Email: sales@processinspector.com