Signature Analysis for Process Monitoring and Control
A cost effective, robust process monitor

PVM3000

Proven Press Analysis
- The system captures the force signature over time, and compares this signature to the reference or "learned" signature using OES’s patented CDA algorithm
- Signature analysis of the region within the "box" discriminates between normal and abnormal cycle signatures that identify a defective part

Operator Friendly Design
- Menu-driven interface supports quick setup
- Multicolor graphic display of signature, inspection region, and tolerance bar relative to control limits
- Two levels of defect detection with flashing amber display for suspect parts and bright red display for part defects
- Simple-to-use “Learn” function after setup for a new process
- Audible alert following a part defect
- Password controls for supervisory access to configuration routines and tolerance controls

Quick Start Setup
- The menu-driven, interface makes setup simple and fast

Monitoring and Data logging
- ForceView software running on a PC interfaces with the PVM3000 to support capability studies, setup, monitoring and analyzing process trends relative to control tolerances, and data logging.
- Immediately color graphs of crimp process signatures are displayed on ForceView for Windows showing any trend relative to configurable upper and lower tolerances.

High performing, simple to use cost effective

www.oesttechnologies.com

Product specifications and related information subject to change without notice.
About OES Technologies
Since 1979, OES has provided world-leading manufacturers with process monitoring and control solutions. OES’s powerful process monitor analysis technology is made available across the ForceCapture and ForceWorx product lines.

Technical Specs

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>24VDC @ 350mA</td>
</tr>
<tr>
<td></td>
<td>External power supply included or optionally powered from press via interface cable</td>
</tr>
<tr>
<td>Communications</td>
<td>1 USB 2.0</td>
</tr>
<tr>
<td>Sensor Inputs</td>
<td>1</td>
</tr>
<tr>
<td>Inputs</td>
<td>1</td>
</tr>
<tr>
<td>Outputs</td>
<td>2</td>
</tr>
<tr>
<td>Dimensions</td>
<td>89 x 147 x 25 mm</td>
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<tr>
<td></td>
<td>3.5 x 5.6 x 1.0 inch</td>
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PVM3000 package typically includes:
- PVM3000 Unit
- ForceView for Windows Software
- Sensor and connecting cable
- Electrical interface cable
- Universal, flexible mounting bracket

FORCEView for Windows enables operators to set-up and operate the defect detection system. ForceView contains a powerful set of graphical signature analysis tools so you can track production trends and process variations based on preset tolerances. It also captures the process signature of every cycle for 100% traceability.

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