Wireless Pressure Monitor

Guardian™
Vektet’s Machine Tool Protector

Ensures Positive-Pressure Monitoring

- Install pressure switches.
- Find a place on the fixture for your transmitter.
- Find a place on your machine for your receiver.
- Wire your control box.
- No more tool crashes. IT’S THAT SIMPLE!

The Guardian™ gives you full time, “In Cycle”, hydraulic pressure monitoring configured for your machine tool fixtures. Equipped with an IP 67 sealed pressure switch, sealed Fixture Transmitter and M12 connectors; Guardian™ ensures positive-pressure monitoring even in the harshest environments. Best of all, you will enjoy easy pressure monitoring and machine tool notification with no interference issues.

The Simple Guardian™ installs with four wires (two power wires and a pair of M-code wires). It is a quick and clean installation needing no modifications to the machine tool control. Leave the M-Code check instructions out of your part program for non-monitored fixtures.

The Base Guardian™ Continuous system requires six wires and continuously monitors only the pallet in the machining envelope. The pallet being loaded is ignored during the unload/reload process until it enters the machine. Once inside the machine enclosure, Guardian’s™ “focused field” monitors the pallet. Accomplish immediate full-time machine communication by wiring directly into a feed-hold or e-stop control. Guardian notifies your machine immediately of any critical pressure loss.

- Fixture Transmitters require no batteries, ever!
- Simplified connection via standard connectors and cables.
- Dedicated in-cycle monitoring or machine code polling of fixture status.
- Will not affect other plant wireless systems.
- Master Control Unit power requirements; 10-36 VDC from Machining Center.
- Fully Sealed Fixture Transmitters.

Simple and Base Guardian™
Continuous Systems

- 2 Single Circuit Fixture Transmitter Units
- 2 Pressure Switches and Cables
- 1 Machine Tool Receiver
- Master Control Unit
- All Necessary Wiring

Convenience Packages

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>43-3011-10</td>
<td>Simple</td>
<td>Simple Guardian Package for on demand monitoring. Includes Master Control Unit, Machine Tool Receiver, two fixture transmitters, two mechanical pressure switches and pressure setter/checker*</td>
</tr>
<tr>
<td>43-3011-20</td>
<td>Base</td>
<td>Base Guardian Package for continuous monitoring. Included Master Control Unit, Machine Tool Receiver, two fixture transmitters, two mechanical pressure switches and pressure setter/checker*</td>
</tr>
</tbody>
</table>

Convenience Kits

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>43-3010-10</td>
<td>Simple</td>
<td>Machine Kit with Master Control Unit and Machine Tool Receiver*</td>
</tr>
<tr>
<td>43-3010-20</td>
<td>Base</td>
<td>Machine Kit with Master Control Unit and Machine Tool Receiver*</td>
</tr>
<tr>
<td>43-3010-03</td>
<td>Single Circuit Transmitter</td>
<td>Fixture transmitter with cable and pressure switch</td>
</tr>
<tr>
<td>43-3010-04</td>
<td>Dual Circuit Transmitter</td>
<td>Fixture transmitter with two cables and two pressure switches</td>
</tr>
<tr>
<td>43-3010-05</td>
<td>Quad Circuit Transmitter</td>
<td>Fixture transmitter with four cables and four pressure switches</td>
</tr>
</tbody>
</table>

*All necessary wiring and hardware included.
**Guardian™ Accessories**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>End 1 Connection</th>
<th>End 2 Connection</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27-6424-04</td>
<td>Cable, M12 8 Pin*</td>
<td>Male Straight</td>
<td>Open End</td>
<td>10</td>
</tr>
<tr>
<td>27-9422-01</td>
<td>Cable, M12 5 Pin Master Control Unit to Machine Tool Receiver Communication Cable**</td>
<td>Male Straight</td>
<td>Female Straight</td>
<td>10</td>
</tr>
<tr>
<td>27-9422-03</td>
<td>Cable, M12 5 Pin Extension Cable, M8 3 Pin Pressure Switch to Fixture Transmitter</td>
<td>Male Straight</td>
<td>Female Straight</td>
<td>5</td>
</tr>
<tr>
<td>27-7424-01</td>
<td>Pressure Switches 3 Pin M8 Shielded Cable</td>
<td>Male Straight</td>
<td>Female Straight</td>
<td>0.5</td>
</tr>
<tr>
<td>47-0700-78</td>
<td>55-350 Bar Pressure Switch with 0.5m Cable (Shown)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47-0700-74</td>
<td>55-350 Bar Pressure Switch with M8 Male Connection Only***</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>43-3010-15</td>
<td>Pressure Setter/ Checker to assist setting mechanical pressure switches</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Included with Master control Units 43-3011-XX can be purchased separately for replacement or additional hook up.

** 27-9422-01 is included with 43-3011-XX. Cables can be purchased separately for extension or replacement.

*** 47-0700-74 requires User Provided 3 Pin M8 Shielded Cable.

NOTE: All Guardian cables are shielded and PUR jacketed.

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**Accessories**

- M12 8 Pin Female Connector
- M12 5 Pin Female Connector

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**Wireless Pressure Monitor**

**Machine Tool Receiver 43-3011-12**

- Includes 0.5m M8 Shielded Cable P/N 27-7424-01 For Direct Connection to Fixture Transmitter

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**Master Control Unit**

- 43-3011-14 Simple
- 43-3011-24 Base

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**Fixture Transmitter Units**

- M8 Pressure Switch Connection
- (See Table)

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**Palletized Fixture Accessories**