The Dynamix 2500 data collector is a real-time, multi-channel Fast Fourier Transformer (FFT) signal analyzer and data collector for predictive maintenance and machinery vibration diagnostics. It is capable of measuring, processing, displaying, and storing a wide range of analysis functions. It can operate as a stand-alone instrument or you can download your measurements to your software application for program analysis.

This portable data collector and analyzer is one of the tools Rockwell Automation provides for your comprehensive CbM program, and is also available in a version for ATEX Zone 2 and IEC Ex for hazardous environments. Its measurement capability, analysis functions, and ease of use make it the perfect tool for your portable predictive maintenance strategy.

Our integrated approach to condition monitoring lowers your total cost of ownership by using your existing plant information and control platform, as well as industry standard protocols. This allows you to choose the best mix of condition monitoring data collection strategies and technologies.

The combination of the Dynamix 2500 data collector with Emonitor software provides you with tools for predictive maintenance using noise and vibration analysis. The data collector can also be used for a variety of other applications, such as balancing or bearing analysis.
A predictive maintenance program helps you decide when equipment needs to be serviced or replaced. Part of a complete program includes vibration monitoring. The Emonitor software and the Dynamix 2500 data collector let you perform vibration analysis by collecting data samples.

With the combination of predictive maintenance software and the Dynamix 2500 data collector, you can:

- Create lists of measurement definitions for data collection.
- Load lists from the Emonitor software into the Dynamix 2500 data collector.
- Collect magnitude, process, spectrum, time, and phase data.
- View selected alarms with the data. The Dynamix 2500 data collector alerts you when a measurement exceeds an alarm.

- Define and collect unscheduled measurements.
- Select inspection codes to store with a measurement, documenting the condition of the machine.
- Unload the data from the Dynamix 2500 data collector directly into the Emonitor database, along with any inspection codes and unscheduled measurements.

In addition, Emonitor software can optimize your data collection by combining measurement definitions at a location. For example, the software can combine magnitude and spectrum measurement definitions so that the list appears to contain only a single measurement. This lets you collect all three measurements at one time, minimizing the time you spend collecting data.

### Dynamix 2500 Portable Data Collector Kit Details (1441-DYN25-2C and 1441-DYN25-Z-2C)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1441-DYN25</td>
<td>Dynamix 2500 Data Collector</td>
</tr>
<tr>
<td>1441-DYN25-CAP</td>
<td>Dust Cap Set for Inputs</td>
</tr>
<tr>
<td>1441-DYN25-CD</td>
<td>Operating System and Info CD</td>
</tr>
<tr>
<td>1441-DYN25-PS</td>
<td>Global Power Supply</td>
</tr>
<tr>
<td>1441-PEN25-BAT</td>
<td>Battery</td>
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<tr>
<td>1441-PEN25-CASE-T</td>
<td>Transit Case</td>
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<tr>
<td>1441-PEN25-COMS-US</td>
<td>Communication Cable USB Power Splitter</td>
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<tr>
<td>1441-PEN25-HS</td>
<td>Hand Strap</td>
</tr>
<tr>
<td>1441-PEN25-RBS</td>
<td>Rubber Bump Sleeve</td>
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</table>

### Optional Modules and Accessories

<table>
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<tr>
<td>1441-DYN25-CAP</td>
<td>Dust Cap Set for Inputs</td>
</tr>
<tr>
<td>1441-DYN25-CBL2CH</td>
<td>2-Channel Adapter Cable</td>
</tr>
<tr>
<td>1441-DYN25-CBLHS</td>
<td>Headset Adapter Cable</td>
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<td>1441-DYN25-CD</td>
<td>Operating System and Info CD</td>
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<tr>
<td>1441-DYN25-M4CH</td>
<td>4-Channel Extension Module</td>
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<tr>
<td>1441-DYN25-MBAL</td>
<td>2-Plane Balancing Extension Module</td>
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<tr>
<td>1441-DYN25-MBMP</td>
<td>Bump Test Extension Module</td>
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<tr>
<td>1441-DYN25-MFRF</td>
<td>Frequency Response Extension Module</td>
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<tr>
<td>1441-DYN25-MREC</td>
<td>Time Recorder Extension Module</td>
</tr>
<tr>
<td>1441-DYN25-MRUC</td>
<td>Run Up Coast Down Extension Module</td>
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<tr>
<td>1441-DYN25-PS</td>
<td>Global Power Supply</td>
</tr>
<tr>
<td>1441-PEN25-BAT</td>
<td>Spare Battery</td>
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<tr>
<td>1441-PEN25-CASE-T</td>
<td>Transit Case</td>
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<tr>
<td>1441-PEN25-COMS-US</td>
<td>Communication Cable USB Power Splitter</td>
</tr>
<tr>
<td>1441-PEN25-HS</td>
<td>Hand Strap</td>
</tr>
<tr>
<td>1441-PEN25-NS</td>
<td>Neck Strap</td>
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<tr>
<td>1441-PEN25-RBS</td>
<td>Rubber Bump Sleeve</td>
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<tr>
<td>1441-PEN25-ZZ-100</td>
<td>100 mV per G Zone II Accel Kit</td>
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<tr>
<td>1441-PEN25-ZZ-50</td>
<td>50 mV per G Zone II Accel Kit</td>
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</table>

(1) The Dynamix 2500 data collector with catalog number 1441-DYN25-Z-2C is for ATEX Zone 2 and IECEx for hazardous environments. This kit contains the same parts as the Dynamix 2500 data collector with catalog number 1441-DYN25-2C.