

# Dynamix 2500 Data Collector

An Important Part of Your Condition-Based Maintenance Program



## Features and Benefits

A portable data collector – used for performing data collection, analysis, and root cause correction in rotating equipment applications (e.g., motors, pumps, fans, gear boxes, etc.) – is an important part of your Condition-based Maintenance (CbM) program.

The Dynamix 2500 data collector includes:

- A high performance computing platform, running Windows CE 6.0
- A sunlight-visible color LCD display
- Suitability for harsh environments, with a Mil 810 spec drop rating, IP65 sealing, and an operating temperature range from -10C to +50C
- Multiple certifications (c-UL-US, CSA, CE, Ex, and IEC Ex for various environments)

The Dynamix 2500 data collector is also Rockwell Automation's fastest data collector/analyzer ever.

**Maximum performance and reliability in a lightweight, rugged design.**



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.

LISTEN.  
THINK.  
SOLVE.®

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.

<b>Dynamix 2500 Portable Data Collector Kit Details (1441-DYN25-2C and 1441-DYN25-Z-2C)<sup>1</sup></b>	
1441-DYN25	Dynamix 2500 Data Collector
1441-DYN25-CAP	Dust Cap Set for Inputs
1441-DYN25-CD	Operating System and Info CD
1441-DYN25-PS	Global Power Supply
1441-PEN25-BAT	Battery
1441-PEN25-CASE-T	Transit Case
1441-PEN25-COMS-US	Communication Cable USB Power Splitter
1441-PEN25-HS	Hand Strap
1441-PEN25-RBS	Rubber Bump Sleeve

<b>Optional Modules and Accessories</b>	
1441-DYN25-CAP	Dust Cap Set for Inputs
1441-DYN25-CBL2CH	2-Channel Adapter Cable
1441-DYN25-CBLHS	Headset Adapter Cable
1441-DYN25-CD	Operating System and Info CD
1441-DYN25-M4CH	4-Channel Extension Module
1441-DYN25-MBAL	2-Plane Balancing Extension Module
1441-DYN25-MBMP	Bump Test Extension Module
1441-DYN25-MFRF	Frequency Response Extension Module
1441-DYN25-MREC	Time Recorder Extension Module
1441-DYN25-MRUC	Run Up Coast Down Extension Module
1441-DYN25-PS	Global Power Supply
1441-PEN25-BAT	Spare Battery
1441-PEN25-CASE-T	Transit Case
1441-PEN25-COMS-US	Communication Cable USB Power Splitter
1441-PEN25-HS	Hand Strap
1441-PEN25-NS	Neck Strap
1441-PEN25-RBS	Rubber Bump Sleeve
1441-PEN25-Z2-100	100 mV per G Zone II Accel Kit
1441-PEN25-Z2-50	50 mV per G Zone II Accel Kit

(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.

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