Preface

The content in this manual is based on the following firmware revision and software version.

- Enpac® 2500 data collector, firmware revision 3.10
- Emonitor® software, version 3.4

Using the Manual

This manual covers the Enpac 2500 data collector module which is used for predictive maintenance using noise and vibration analysis. It describes also how to use the Emonitor software to load and unload lists.

When using the Enpac 2500 data collector, you can do the following:

- Create lists of measurement definitions.
- Load lists from Emonitor into the data collector.
- Use a 40 Khz fmax, Route and Offroute.
- Collect magnitude, process, spectrum, time, and phase data.
- View selected alarms.
- Select inspection codes to store with a measurement.
- Define and collect unscheduled measurements
- Unload the data from the data collector directly into the Emonitor database.
- View the high resolution, up to 12,800 lines on the data collector.

Upgrade Options

These are the upgrade options for the Enpac 2500 data collector:

- 1441-PEN25-MOD-2CH 2 - Channel Upgrade Kit

  Two Channel application allows for advanced use of orbits, cross channel phase, and simultaneous data collection in route and off route collection.

- 1441-PEN25-MOD-BMP - Bump Test

  A bump test (or hammer test) determines the natural frequencies of a machine or a structure.

- 1441-PEN25-KIT-BAL - Balancing

  Balancing application resolves single-plane, two-plane, and static-couple balances with high precision.

- 1441-PEN25-MFRF - Frequency Response Function

  The FRF test lets you determine the natural frequencies of a machine as well as sophisticated information about the frequency response of the structure being tested.

- 1441-PEN25-MOD-REC - Time Recorder

  The Time Recorder test uses a the instrument as a data recorder for real-time data acquisition and analysis.

- 1441-PEN25-MOD-RUCD - Run Up Coast Down

  The RUCD test records and analyzes data from intermittent events and transient vibration signals from non-steady state machines.

Accessories

Table 56 - Accessories

Cat. No.	Description
1441-PEN25-ACC-AL	Accelerometer Loop with Belt Clip
1441-PEN25-BAT	Enpac 2500 Spare Battery
1441-PEN25-BC	Belt Clip
1441-PEN25-CASE-S	Service Case
1441-PEN25-CASE-T	Enpac 2500 Transit Case
1441-PEN25-CD	Enpac 2500 Operating System & Info CD
1441-PEN25-COMS-RS	Communication Cable RS232
1441-PEN25-COMS-US	USB Power Splitter Cable for USB Communications
1441-PEN25-HS	Hand Strap
1441-PEN25-ISC	Instrument Soft Cover
1441-PEN25-LB	Leather Belt
1441-PEN25-NS	Neck Strap (Leather)
1441-PEN25-PA	Enpac 2500 Power Adapter, use the same as the power
1441-PEN25-RBS	Enpac 2500 Rubber Bump Sleeve
1441-PEN25-SCH	Soft Case Holster
EK-45131	Fischer 102 to BNC Trigger (1M)
EK-45274	ATA Memory Card (16 Mb)
EK-46252	LEMO to BNC, Straight Cable, 4

Upgrade Options

Table 57 - Upgrade Options

Cat. No.	Description
1441-PEN25-MOD-2CH	2-Channel Upgrade Kit (HW Purchase Separately)
1441-PEN25-MOD-BAL	2-Plane Balancing Kit (HW Purchased Separately)
1441-PEN25-KIT-BAL	2-Plane Balancing Kit with Hardware
1441-PEN25-MOD-REC	Time Recorder Kit (HW Purchased Separately)
1441-PEN25-MOD-RUCD	Run Up/Coast Down Kit (HW Purchased Separately)
1441-PEN25-MOD-BMP	Bump Test Kit (HW Purchased Separately)
1441-PEN25-MOD-FRF	different part number than the YURI