

PRES, Inc.'s mission is to secure a competitive edge for our clients by providing robust, easy to use, process/machine reliability systems and services that secure an immediate cost advantage. It is our business to understand our clients manufacturing or process requirements, then apply the most cost effective technology to optimize their invested capital.

PRES, Inc.'s ICMS technology tool is designed for the technician, engineer, or scientist working with steel, refining, chemicals, plastics, polymers, cement, automobile, or mining industries.

### Who We Are:

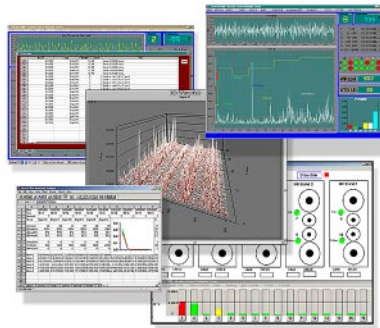
PRES, Inc. is a company founded by reliability/vibration specialists, electrical engineers, and computer scientists dedicated to applying field tested "State of the Art" technology to enhance our client's machine and process reliability needs. The Sentry System ICMS (Integrated Condition Monitoring System) is the culmination of our experience and knowledge of machines and process, and how to keep them running.

Our clients include; chemicals, plastics, metals, casters, and etc. The machines we have monitored and analyzed are as diverse as our clients and include: pumps, compressors, roll grinders, oscillators, tandem mills, bearing manufacturers, turbines, and etc.

The services that we provide include:

- ICMS Sales
- Installation
- Support
- Troubleshooting
- Root Cause Analysis
- Reliability Surveys
- Route Based Monitoring
- Thermographics
- Oil Analysis
- Reliability Training
- Power Condition Monitoring
- System Integration

Tel: (440) 899-7091



### Introducing The Sentry System Technology with these capabilities:

- Continuous & Route Based Vibration Data Collection
- Real-Time On-Line Monitoring
- Replay Functions
- For Pumps, Motors, Rolling Mills, Compressors, Gear Boxes, Cranes, & Etc
- Available in Hand Held, Laptops, Lunchboxes, Desktops, and Diagnostic Station Enclosures
- Ethernet, Modem, Wireless, Web Networks
- 4 to 64 Vibration, 8 to 256 Analog, & 8 to 256 Digital Channels
- User-Friendly From the Shop Floor to the R&D Laboratory
- Expert Root Cause Analysis Technology (ERCA)
- Waveform, Spectrum Analysis, & Diagnostics
- Extensive Triggering, Alarming, & Graphic Display Features

**PRES Inc.**  
925 Bassett Rd, Unit A  
Westlake, Oh 44145  
[www.pres-inc.com](http://www.pres-inc.com)

Our focus is to improve our client's process. With years of background in the industry, we utilize our intimate knowledge of machinery design to predict failures and provide resolutions before failures occur.

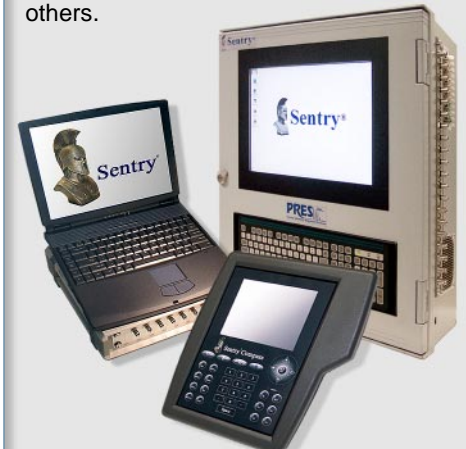
Our successful track record speaks for itself. We work closely with our clients to utilize their knowledge so we can provide them more effective services. Our goal is to not only become a part of their predictive maintenance program, but also their quality program.

We provide flexible predictive maintenance programs that can expand (both technically and in magnitude) based on the needs of our clients. Programs may start with only walk-around services and end up with continuous monitored programs with PC/DCS interfacing.

Multiple purchasing options are available. We are flexible in how equipment and software are purchased, installed, and maintained.

Competitive pricing for the initial cost, upgrades, maintenance, on-line support, and on-line monitoring. We provide a wide range of support from project inception, all the way through to development and implementation of the continuous maintenance program.

Condition Based Maintenance Hardware and Software are of only limited value without the support of local skilled personnel for installation, maintenance, data analysis, interpretation, diagnostics, and cost effective problem resolution. Our service is tailored to meet our client's needs. We service and Maintain equipment installed by both our client's and others.



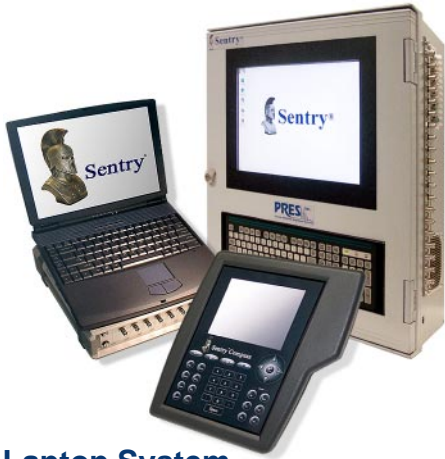
Fax: (440) 899-6880

## The Sentry Systems

PRES, Inc. systems collect data in order to measure, trend, isolate the cause, and correct problems in process/machine conditions that lead to premature component failure, diminished product quality, and result in lost production.

Vibration sensors are placed on the process machine to monitor various components such as bearings, couplings, seals, axles, gears, and impellers. Process variables like speed, load, flow, pressure, temperature, and force are also collected. Integration of vibration and process data provides the information needed to dramatically improve machine reliability and product quality.

PRES, Inc.'s ICMS devices determine optimum production parameters to maximize our client's return on invested capital by minimizing unscheduled downtime while maintaining conformance to quality assurance standards.



## Laptop System

The Sentry Vibration Signature Analysis Laptop System (VSALS) is an Integrated Condition Monitoring System (ICMS) that utilizes our windows based Sentry software. It is a continuously monitoring package that utilizes "State of the Art" laptop computers, data acquisition cards and a Sentry Interface Module. The Sentry Interface Modules for the Laptop System can interface **up to 16 channels of vibration inputs, 4 analog inputs and 4 digital I/O**. The compact size of the Sentry Laptop System makes it ideal for portability and can be utilized in continuous monitoring applications as well as periodic use for diagnosing operating and mechanical problems. At just under 10lbs. The Sentry Vibration Signature Analysis Laptop System offers versatility and flexibility in a compact powerful package. Custom configurations are also available

## Wireless Crane Monitoring

The Sentry Wireless Crane Monitoring System utilizes wireless communication technology to provide real time monitoring where direct cabling can be difficult to accomplish. The Sentry Wireless Crane Monitoring System is an ICMS that utilizes our windows based Sentry software and can be customized to include **up to 16 vibration channels, 8 analog I/O and 8 digital I/O**.

## Setting a New Benchmark in ICMS Integrated Conditions Monitoring Systems

PRES, Inc. can provide system design, engineering, specifications, installation, and maintenance of both our products, and customize client's systems. PRES, Inc. is an authorized system integrator for several major data acquisition and control providers. Our staff has an extensive background in system integration, data based management, PID control, and network communication. Our experience covers a wide array of industries.

## Route Based Predictive Maintenance Services

PRES, Inc. provides services such as routine monitoring of systems custom design for monitoring/control systems, networking of systems, to the clients existing automation scheme, field installation and training.

- Remote monitoring and on-line Service Agreements that consists of phone modem, T1 line, and electronic data and alarm transmission, via the web back to the PRES, Inc. Offices. This service could include alarm notification and report generation on a periodic basis.
- PRES, Inc. offers spare parts, materials for expansion, and the labor to install, commission, and provide training for the clients.
- Route Based Monitoring Systems
- Ladle Yield Optimization Systems
- Remote monitoring of systems via network or wireless connections
- Caster Oscillator Balancing and Drive Train Diagnostics
- Chatter Detection-Rolling Mill Steel Production
- Pre-Failure Analysis

## Compass

Did you ever wish that you could do Route Based Vibration Signature Data Collection and Analysis, Acoustic Analysis, Power Quality Analysis, Single and Dual Plane Balancing and Alignment, bring in analog signals for Flow, Temperature, and Pressure as well as having a Tachometer Input for Speed Reference without needing to lug around 5 or 6 units into the field? Well here is the "Swiss Army Knife" for all these task's and more that you have been waiting for: The Sentry Compass Route Based Analyzer

## Lunchbox System

The Sentry Vibration Signature Analysis "Lunchbox" System is an Integrated Condition Monitoring System (ICMS) based on a portable platform that has all the key features of our desktop system. Combined with our Sentry Interface Modules the "Lunchbox" becomes a very versatile and powerful solution. The "Lunchbox" System is typically used to periodically diagnose operating and mechanical problems and can be applied as both a continuous system or on a as needed basis. Some of the key features include

## VSA Diagnostic Station

The Sentry Vibration Signature Analysis Diagnostic Station (VSADS) is an Integrated Condition Monitoring System (ICMS) that utilizes our windows based Sentry software. It is a continuously monitoring package typically provided in a Nema 12 enclosure with a LCD Touch Screen display, local data storage, remote communication via Ethernet and an industrial membrane keypad. The standard package integrates **up to 64 channels of vibration inputs, 64 analog inputs and 8 digital I/O**. Some options include: Interfacing capability to PLC's, Level I, II, and III systems and off-loading for long term trending and alarming. Custom configurations are available

## Desktop System

The Sentry Vibration Signature Analysis Desktop System is an Integrated Condition Monitoring System (ICMS) that utilizes our windows based Sentry software. It is a continuously monitoring package that utilizes "State of the Art" desktop computers, data acquisition cards and a Sentry Interface Module. The Sentry Interface modules can integrate **up to 64 channels of vibration inputs, up to 64 analog inputs, 8 digital I/O** and includes a dial up modem and Ethernet networking capabilities. Some options include: Interfacing capability to PLC's, Level I, II, and III systems and off-loading for long term trending and alarming. Custom configurations are available.

## PRES Inc.

925 Bassett Rd, Unit A  
Westlake, Oh 44145

Tel: (440) 899-7091  
Fax: (440) 899-6880

Email: sales@pres-inc.com  
Url: www.pres-inc.com