ELECTRO·SENSORS

Hazard**PRO**™
Wireless Hazard Monitoring

Electro-Sensors is revolutionizing the way hazard monitoring is done with its turn-key **Hazard**PRO™ systems. Rugged sensors and the most advanced wireless technology combine together to create the best hazard monitoring solution available with the lowest installed cost.

Reliable • Simple • Complete

For years a large percentage of the expense of a hazard monitoring system has been the labor and material costs associated with the installation of conduit and wiring. Our **HazardPRO™** system was designed from the ground up to communicate wirelessly, minimizing these costs. Consistent operation is ensured with self-diagnostics, transmission logging, and redundant receivers. It is now possible to invest this savings in more accurate sensors, better displays, and more intelligent controls that provide increased system reliability, ease of use, and fewer false alarms.

Status At-A-Glance

On the **HazardPRO** status screen, an operator can quickly and easily view the complete operation, including what machines are running and the status of each. The operator can instantly spot a problem and then touch the display screen to bring up specific information for that equipment. Operators with the proper authority can silence alarms or clear a forced shutdown all from one screen. An hour meter and all sensor status are displayed when a piece of equipment is selected. The **HazardPRO** can also provide a graphic view of your facility with information labeled and overlaid.

Real-Time Information

Because the **HazardPRO** intelligent transmitter nodes send information when a change is detected, there are no polling delays. The live chart is a convenient way to view the status of a sensor. Interactive history charts for each sensor are also available. And, like all displays, they are available on your network and on the web.

Accountability

When an event occurs, it is automatically logged. An operator can view a graph of the event and, after investigating, can document the cause and the resolution. To ensure the integrity of the log, only users with the proper authority can edit or close events. Event logs can be printed for review and documentation.

Security

The plant administrator can set the level of access and control for each user. Internet access is secure with the proprietary server and full password protection.

Full Integration With Your Controls

If you are planning new controls, then a single Ethernet cable will link advanced hazard monitoring to your PLC. For those who have an existing system in place, the **HazardPRO** can hard-wire an interface to create an improved control system.

Wear-Detect Sensors & Self Diagnostics

Until now, determining the condition of a rub block alignment sensor required shutting down the belt and performing a visual inspection. With the **HazardPRO** rub block, a warning will be displayed at the control panel if a block is wearing down to a point where it should be replaced. Transmitter self-diagnostics, transmission logging, and sensor correlation ensure the system is operating correctly.
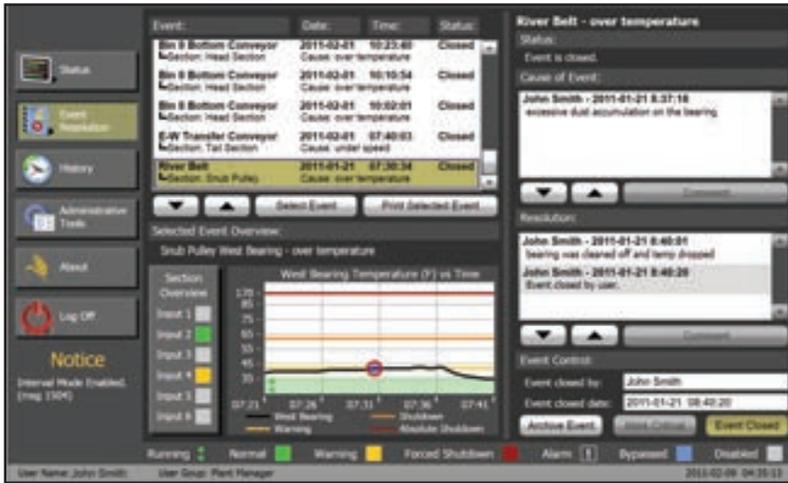
Better Protection – Fewer False Alarms

The **HazardPRO** system minimizes false alarms and still provides the best protection possible. Setting bearing setpoint alarms for days without fluctuating temperatures might be fine for that day, but for days with wide temperature ranges or cold winter weather, the bearing might self-destruct before the alarm sounds. To eliminate this problem, the **HazardPRO** system utilizes ambient temperature sensors on each side of the equipment to automatically adjust the setpoints and give the operator an early indication of a potential failure.

Cold Weather Start Option

Cold weather and icy conditions may cause false alarms and costly delays for conveyer belts during startup. The **HazardPRO** system provides a cold weather start-up option that carefully tracks speed and start time to prevent equipment damage while minimizing unnecessary shutdowns.
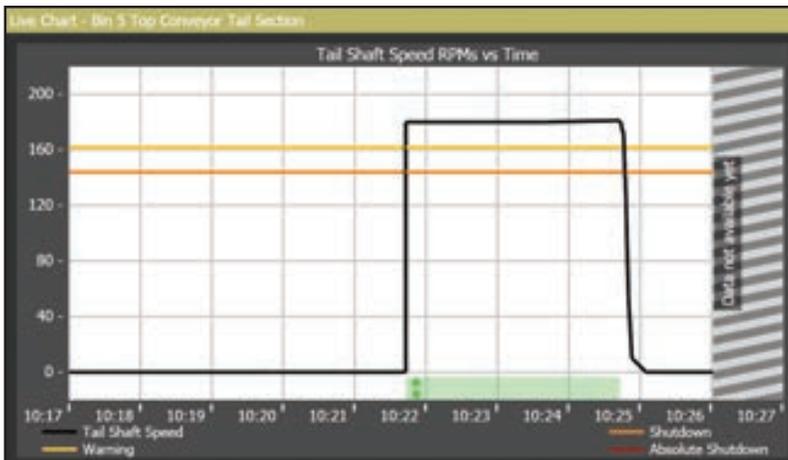
Intuitive Touch-Screen for Easy Navigation

- Exceptional moisture resistance
- Transmit-on-change keeps all data current
- Continuous self check and transmit routines
- Redundant receivers
- Multi-point ambient compensated setpoints
- Seamless connection to PLCs and other controls
- History logs and printable graphs
- Live chart real-time display
- Cold weather starting option
- Interval monitoring option
- Email and dial out for user-selected events
- Scalable, add more transmitter nodes at any time
- User friendly slow-down test and documentation
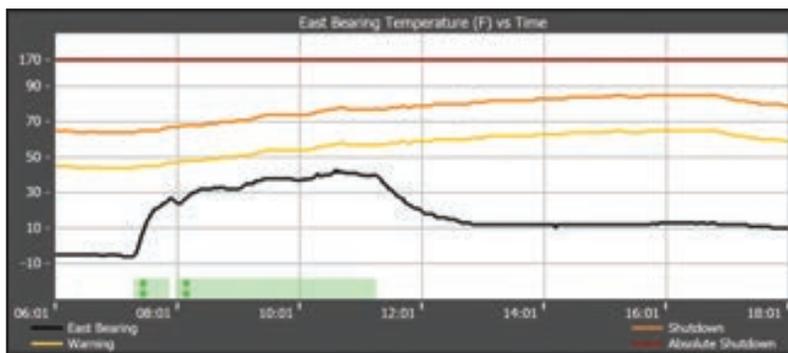- Made with all non-corrosive materials

Tail Shaft Speed: Live Chart

Live chart showing conveyor speed, setpoints, and runtime.

User Selected Warning
User Selected Shutdown

Tail Shaft Speed

Bearing Temperature: Live Chart

Absolute Shutdown
User Selected Shutdown
User Selected Warning

Bearing Temperature

Alarm and shutdown setpoints automatically track with ambient temperature.

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