WASP

Wireless Velocity, Acceleration, Pressure, Temperature, and Level Sensors

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BOSSPAC™
ENGINEERING TECHNOLOGY

Wireless Solution for Rotating Equipment Vibration Measurement

The BossPac WASP™ (Wireless Acceleration Sensor Puck) is an end-to-end wireless solution for monitoring vibration, pressure, temperature, and level on rotation equipment used in permanent and mobile condition monitoring systems

BossPac WASP™ and WASP-P

Increase equipment uptime with this truly wireless vibration, temperature, pressure & level monitoring solution.

WASP™ pucks, configured with unique velocity, acceleration and temperature thresholds, help predict failure in compressor valves and other equipments. These non-intrusive wireless sensor pucks provide condition monitoring without costly hard wiring, and increases equipment up time.

Features & Functions

- CSA Class I, Div 2 certified
- ATEX Zone 2 certification
- Frequency range of 10 to 250 Hz
- Amplitude range of 0 to 16 G's
- -40°C to 185°C (-40°F to 365°F)
- 30 m (~100 ft) range
- 1 year lithium ion battery
  (2 year option available)
- Non-intrusive
- Simple and fast data collection

BossPac WASP™ NEST (Receiver)

Reduce downtime by confidently scheduling equipment maintenance. Use up to 54 BossPac WASP™ pucks to create base cases and automatically recognize vibration and temperature variations.

This easy to use, touch screen wireless system can be used for permanent condition monitoring or temporary problem diagnosis solutions. The receiver easily connects to control panels, SCADA and data historians.

Features & Functions

- CSA Class I, Div 2 certified
- ATEX Zone 2 certification
- Connect 55 WASPs to one NEST
- User defined warnings and shutdowns
- Touch screen
- Non-volatile data storage
- MODBUS
- 2 discrete outputs
- Ability for satellite call out
- Solar Powered (Optional)
- Data retrieval by laptop or with SCADA

BossPac Mobile WASP™ NEST

Monitoring of problem or isolated equipment has never been easier or more affordable with the mobile BossPac WASP™ NEST.

The mobile BossPac WASP™ NEST gives an indication of overall equipment health and helps determine if more detailed vibration analysis is required.

Features & Functions

- Same specifications as BossPac WASP™ NEST
- Mobile
- AA batteries
- Data retrieval with SCADA or USB flash drive

How it Works

Equipment Being Monitored

Pressure & Temperature

30 m (100') Wireless

Maximum 54 Sensors Any Combination

Vibration & Temperature

NEST Receiver

Modbus (Hardwired)

PLC Control Panel (Optional)

Remote Monitoring

Iridium Satellite
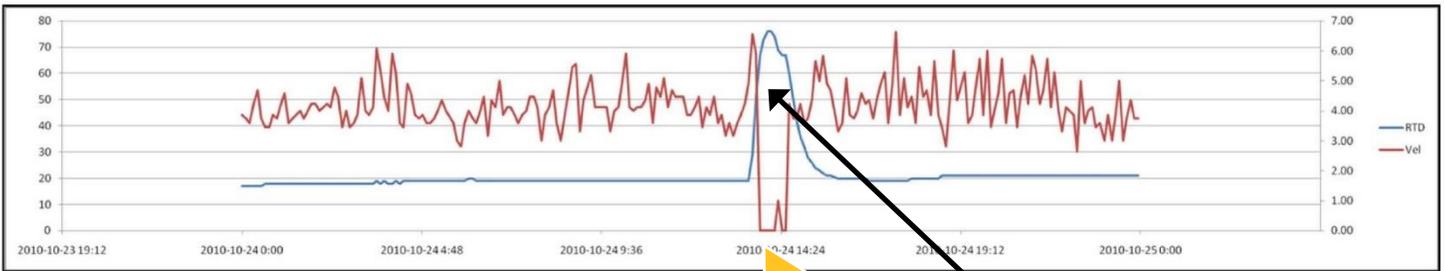
Internet

Equipment Being Monitored
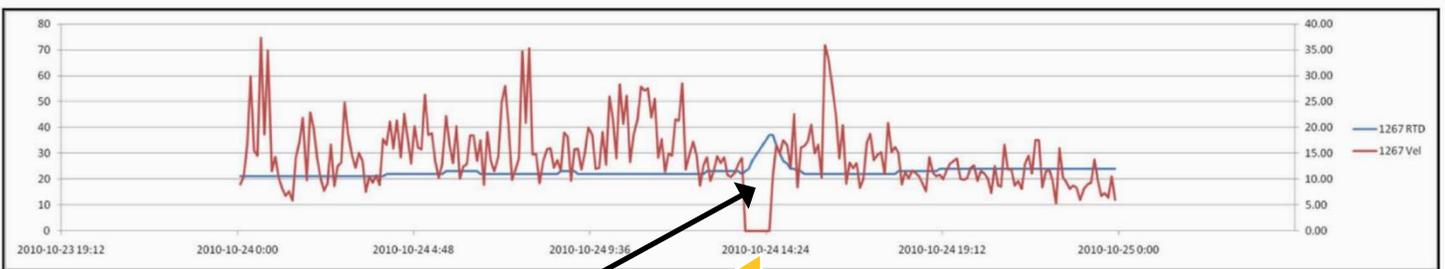
SkyNEST Receiver

Access data any where in the world

WASP™ sensors on a White Superior MW64 Gas Compressor

Compressor Valve Failure Captured
Note the increase in temperature and velocity *before* compressor shutdown

Compressor Valve (w/o Failure)
Note the increase in temperature *after* compressor shutdown.

Use your PC to view, organize, and analyze the logs from the BossPac WASP™

Features & Functions

- Use 1 PC to store information from multiple machines
  - Temperature
  - Velocity
  - Acceleration
  - WASP™ battery voltage

- Create convenient templates that are easily reusable
- Highlight data traces
  - Example shows suction valves highlighted
- Apply filters to selected chart data
  - Adjustable moving average

- Make decisions on alarm and shut down points
- Identify patterns
- Email data to co-workers
  - Single data file design makes it easy to share logs with co-workers

BOSSPAC™
ENGINEERING ⚡ TECHNOLOGY

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