

Monitor instrument air use by pneumatic devices while providing air compressor diagnostics via Scada



With the current initiatives to eliminate methane emissions, the practice of using natural gas to operate wellsite pneumatic controls has come under scrutiny. A popular remedy is the use of instrument air compressors to replace the natural gas used in these devices. The problem with these compressors is reliability, and few operators have incorporated monitoring instrument air systems with their Scada systems. Most only receive notice of low instrument air pressure, but by then their entire facility is shut down.

A simple low cost system trends instrument air use without the need of metering, while also trending air compressor output and runtime for either single or dual instrument air compressor packages. Receive early notice of compressor performance issues and air leaks via Scada, which are provided by onboard analytics of pressure data.

Additionally, traditional air compressor shutdown lights can become inputs to the Pneumatic System Monitor, allowing for Scada reporting. A high discharge temperature shutdown is what happened to the screw compressor package pictured to the left when the cooling fan detached from the motor shaft, flinging it into the air cooling tube bundle.

The Pneumatic System Monitor can be fitted to most any commercial instrument air package.

ALARMS VIA SCADA

Receive a low pressure alarm first then a critically low pressure alarm

Early warning of decreased compressor output via analytics performed on the Pressure Increase data.

Onboard analytics warn when air consumption has increased above normal, indicating leaks or additional demand.

Receive early warning when demand reaches 50% of compression capacity.

For more info, please visit us on the Web at: www.enclinelift.com

Example of Pressure Analytics

Rolling Pressure Decrease: The blue curve to the right is two months of the measured pressure decrease rate while the air compressor was not running. This shows are very stable instrument air requirement, but not the volume.

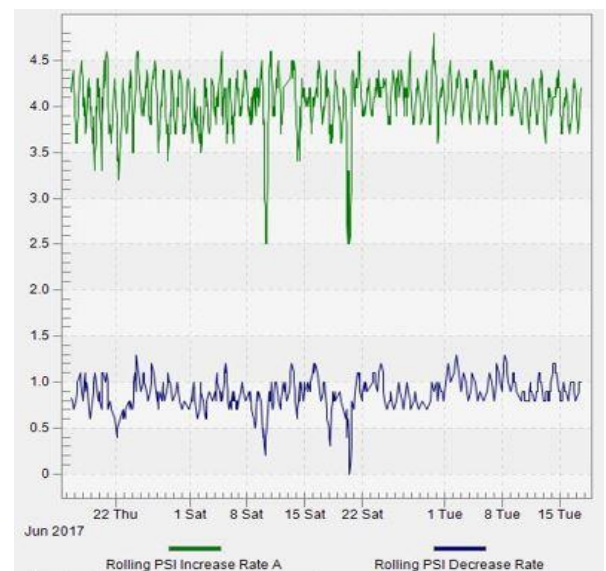
Rolling Pressure Increase: The green curve is the pressure increase rate while the air compressor was running added to the Pressure Decrease curve (which accounts for changes in instrument air demand). This shows the air compressor output is stable.

Smartphone monitoring

- View important instrument air pressure, air consumption, and compressor output data for up to two compressors
- Conventional shutdowns reported to Scada also shown on webpage

Other standard features

- Solenoid output for daily water drain
- Compressor output corrected for ambient air temperature



SMART ESD SERVICE FEE INCLUDES:

- IP address and well name configuration
- Self-installation training
- Technical Support
- Software Maintenance
- Application Upgrades
- Lifetime Hardware Warranty