About Us:

The Riverhawk Company was founded in 1993 in Central New York State. Serving primarily the Power Generation and Petro-Chemical Markets during the start up years, we have expanded our customer base to establish new markets in mining, construction, wind power, nuclear, manufacturing, reciprocating and steel industries. In 1999 Riverhawk acquired Indikon, an instrumentation company specializing in vibration monitoring equipment, torque metering systems, coupling alignment systems, and web deflection measurement equipment.

Committed to meeting the varied needs of its vibration customers, Riverhawk provides an extensive line of proximity probes, seismic vibration sensors, cables, drivers, transmitters, and vibration monitoring devices, all of which are designed and built to customer requirements.

Our torque metering systems, utilizing strain gage technology, have been in use for over 50 years. Using the latest digital technology, they provide the most accurate and yet cost effective torque metering system available today. Riverhawk is the world's only manufacturer of a "Real-Time" alignment system that can precisely measure coupling misalignment while the machinery is operating.

Indikon PRODUCTS & TECHNOLOGY

Riverhawk Company

Indikon CUSTOMIZED INSTRUMENTATION

When facing a unique situation call on ***Riverhawk*** for a solution.

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- ***Custom Engineering***
- ***Unique Applications***
- ***Innovation***
- ***Quality***
- ***Meeting the Needs of Customers***
- ***50+ Years of Experience***

Indikon Products & Technology

Vibration and Position Monitors

- Stand alone, compact, and rugged
- Capable of measuring vibration displacement
- Capable of measuring vibration velocity
- Useful in providing a condition index for rotating machinery
- Provides early detection of changes in vibration levels

4-20mA Loop-Powered Transmitters and Drivers

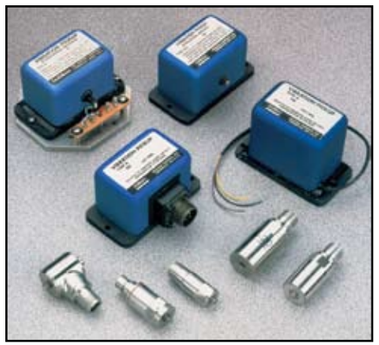
- Converts displacement/vibration signal to DC voltage and/or current for DCS or PLC system
- Controls a 4-20mA current loop for a specific vibration range (ex. 0-5 mils peak-to-peak)
- Two-wire hook up that is powered solely by the loop current
- Power supply range of 15 to 36 volts
- Used in conjunction with Proximity Probes, Accelerometers, and Velocity Transducers

Eddy Current Proximity Probes

- Non-destructive sensor utilized for displacement/vibration measuring
- Effectively and accurately measures change in displacement down to .001” (1 mil)
- Practically immune to oil and dirt; reliable performance in grimy environment
- Used in conjunction with driver/transmitter and probe cable
- Applications include thermal expansion detection, sleeve/thrust bearing wear, rotating shaft vibration

Web Deflection Detection Systems

- Measures crankshaft distortion due to bearing misalignment and enables corrective action prior to shaft or bearing failure
- Designed to work with WebMap2 software
- Portable, easy to use, reliable, and an accurate method to monitor and analyze trends in crankshaft web deflection measurements
- Used on diesel engines, reciprocating compressors, locomotives, electrically driven gas compressors, water/sewage pumping engines
- Applications may be found in chemical plants, pipeline compressor stations, oil fields, gas gathering networks, aboard ships, and in offshore platforms



Seismic Sensors (Transducers)

- Vibration transducer that incorporates a spring-mass system using eddy current damping, allowing resolutions down to the micro inch range
- Senses motion of machine casing relative to its inertial reference and converts to a proportional signal
- Independent from temperature for performance and reliability
- Directly measures absolute displacement in the range of 3Hz to 1000Hz

Riverhawk Company

Indikon Customized Instrumentation

Torque Metering Systems:

- Works with most available couplings on the market with minor modifications, eliminating the need for coupling redesign
- Less complicated coupling design
- Unique “on-shaft” electronics reduces error in readings due to time and temperature by self-calibration; bonded strain gage bridges provide reliable linear torque signals
- The use of two rotary transformers, one supplying power to the electronics and the other transmitting the signals from the shaft precludes any need for bearings or slip rings to be used with the system
- Savings derived from increased machinery efficiency may generate a quick payback while providing insurance against failures in equipment being monitored

Benefits of Riverhawk Torque Metering Systems:

- Reduced weight compared to other systems; minimal weight suspended by coupling due to strain gage technology
- Less sensitive to coupling guard deflections
- Superior with respect to the effects on balance and natural frequency compared to other torque metering technologies
- No gear teeth to generate windage and heat in coupling guard

Reliability:

- Redundant system
- Specific calibration for each individual system
- Customer support world wide for installation supervision

Service:

- Thorough calibration procedure for our torque metering systems
- Quick turnaround on in-house recalibration
- Expert customer support

Torque and “Real-Time” Alignment Systems:

- Currently the only product on the market capable of supplying a misalignment indication while the machine is in operation and the shaft is rotating
- Measures actual shaft position, not case movement
- Provides live information on the state of the coupling, which is useful for condition monitoring and assists in the evaluation of the coupling and bearing loading
- Continuous monitoring of the equipment will enable operators to recognize performance deterioration, which may reduce efficiency or cause a catastrophic shutdown

Riverhawk Company

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