

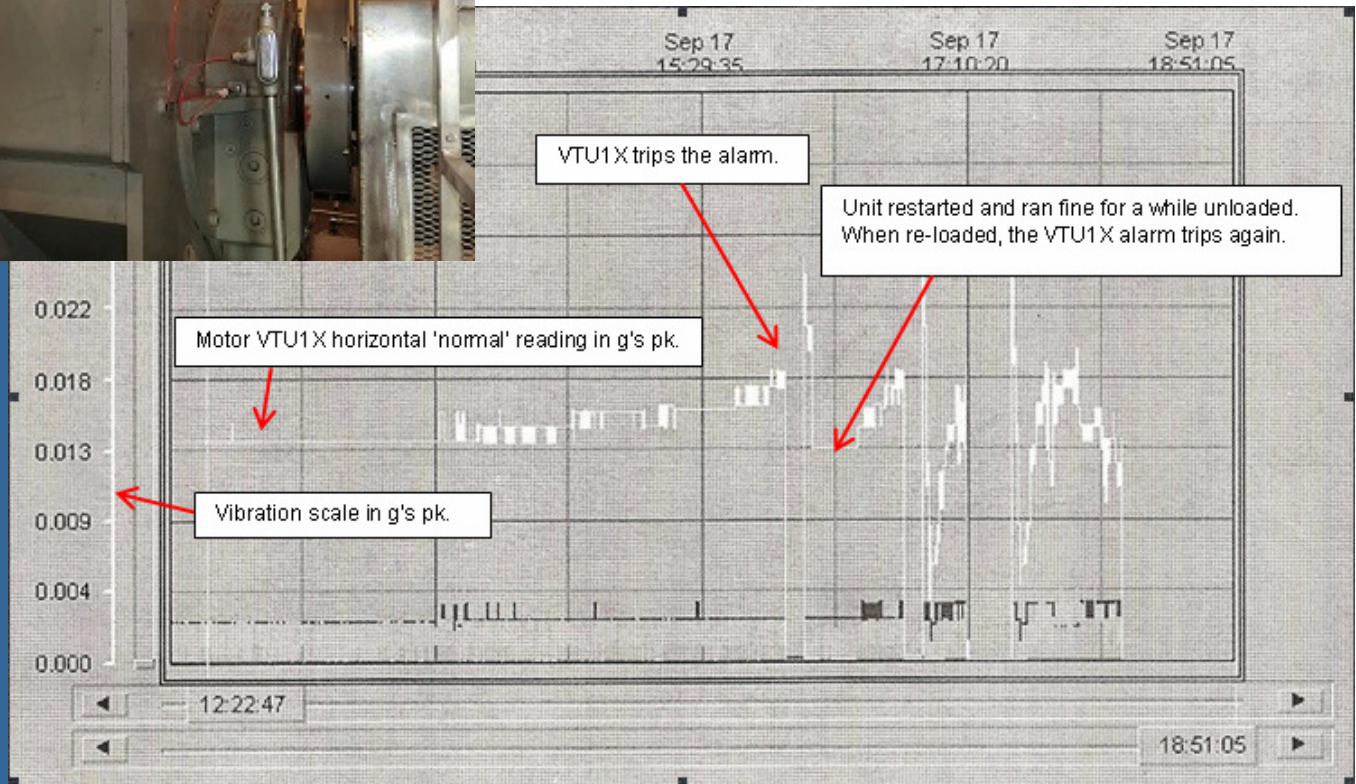


Protecting Production By Monitoring Machinery

VTU1X Success!!!



After a few short months a Riotech Instruments VTU1X has already paid for itself many times over when it detected the early stages of a mechanical failure on an electric drive compressor.



RIOTECH INSTRUMENTS LLLP

27326 Robinson Rd STE 225
The Woodlands, TX 77385

Phone: 281-292-9051
Email: sales@riotechinst.com
Web: www.riotechinst.com


The VTU1X Monitors Reciprocating Equipment For the Following

- Liquid Slugs
- Stationary Bolting Integrity
 - Frame to Foundation
 - Distance Piece to Frame
 - Cylinder to Distance Piece
 - Cylinder Supports
 - Major Piping (Bottle and Scrubbers)
 - Cylinder and Bottle Supports and Wedges

VTU1X Specifications

- Inputs: Two IEPE powered accelerometer
- Outputs: Two 4-20 mA Analog
- Update Rate:(depends on RPM)
 - Partial-Under 4 revolutions
 - Full-Under 8 revolutions
- RPM Range: 300 - 1900
- Memory: 2 years, Using USB Port
- Voltage: 12 - 24VDC
 - Power: ~ 1 Watt
 - Optional: Tach input
 - Certifications: CSA

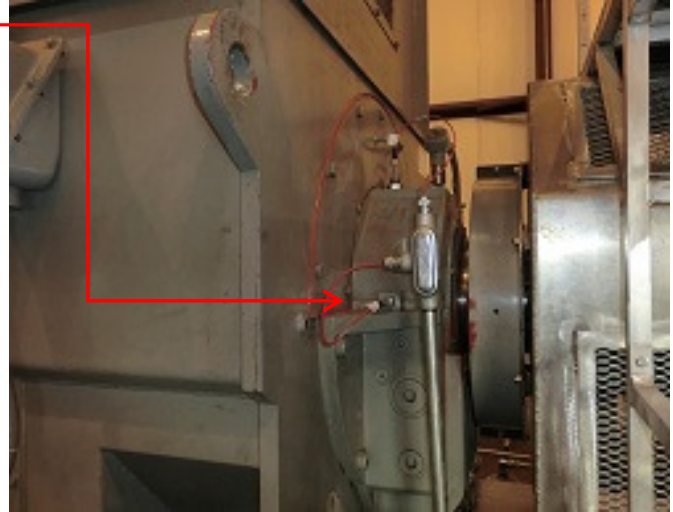
Crack in Second Stage Suction Bottle Detected

The horizontal VTU1X pickup is this one. 

Even after the VTU1X stopped the compressor, personnel restarted it several times before going out to the compressor building to investigate the problem.

The second stage suction bottle was found to be cracked! Without the VTU1X vibration sensors, there is a high probability that a major gas leak could have occurred, with unknown consequences.

Because of concern of an inherent axial resonance causing a drive motor failure, the VTU1X sensor that detected this fault was on the MOTOR! **The overall sensors on the compressor never detected the crack.** This example just shows you how sensitive the VTU1X is to faults.



All reciprocating machinery needs this level of protection!



VTU1X
In Explosion Proof Enclosure



Accelerometer, Cables and TID's
(Included)



Tach Sensor
(Optional)

To Order

Part Number: VTU1X-AS—Includes VTU1X module with 4-20mA output, two accelerometers with 30ft cables and two TID's (Temperature Isolation Devices) to protect the accelerometers (highly recommended).

Part Number: VTU1X-A—Same as above without accelerometers or TID's

Option -TI—Tacho with Inductive pickup.

Option -TP—Tacho with proximity pickup.

Option -TR—Tacho with retro-reflective LED pickup.

For more information about the Riotech Instruments reciprocating monitoring units