



Protecting Production By Monitoring Machinery

ANNOUNCING THE VTU1X-MINI-A HIGH SPEED SHUTDOWN PLUS MONITORING SYSTEM

An effective high speed shutdown system that warns of changes in mechanical condition giving operators time to schedule repairs before needing to perform an unscheduled or emergency shutdown!!!

- **Simple to install:** Basic setup starts with as little as **three connections**
- **No external sensors required**
- **Simple to configure:** Windows based software allows precise settings
- **Lots of powerful options:**
 - Can warn of degrading condition before shutdown
 - On board memory allows operators to see the history of a machine's operating condition
 - Real time clock time stamps events
 - Optional Tach input allows monitoring of variable speed machines

The VTU1X MINI-A warns and protects equipment from the following

- Liquid Slugs
- Loose Supports and Wedges
- Stationary Bolting Integrity
 - Frame to Foundation
 - Distance Piece to Frame
 - Cylinder to Distance Piece
 - Cylinder Supports
 - Pulsation Events
 - Piping Integrity (Bottles and Scrubbers)

VTU1X MINI-A Specifications:

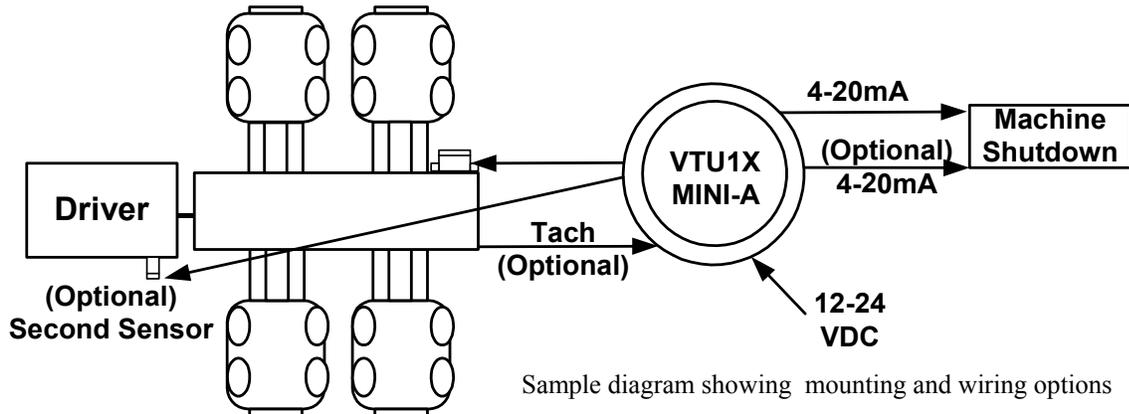
- Outputs: 1 - 4-20mA
- Update Rate: (depends on RPM)
 - Partial-Under 4 revolutions
 - Full-Under 8 revolutions
- RPM Range: 300 - 3600
- Speed Variance Without Tach: +/- 10%
- Optional: Tach input
- Memory: Up to 2 years
- Voltage: 12 - 24VDC, < 2.75 Watt
- Class 1 Div 1 Approvals: **FM**

**RIOTECH
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VTU1X MINI-A not only gives high speed protection for compressors and engines but also warns when your equipment is **approaching** shutdown because of changes in mechanical condition



More than a simple shutdown system:

With RioTech configuration software you can control the range and types of units (G's, mils, in/sec) to monitor.

Plus:

The VTU1X MINI-A does more than watch for catastrophic failures, it has the capability to store the reading that indicate mechanical changes into memory. This allows regular maintenance personnel to retrieve these readings, allowing them to easily see **changes in equipment condition** over time (**Select -M option**).

There is even an option to use the VTU1X MINI-A as an O-Scope, a feature not found with any other recip shutdown system. (**Select -RD and -AT options**)

VTU1X Ordering Options

VTU1X-MINI-A: Single sensor with a single 4-20mA output for machine monitoring and shutdown.

- **-M:** Onboard memory allows analyst to see historical vibration levels. Great for tracking condensate slugs or rate of change in condition.
- **-TD:** Digital tach input, when machine speed varies more than +/-10%. (Sensor not supplied)
- **-TA:** 4-20mA, analog tach input for machines that vary speed more than +/-10%.
- **-RD:** Raw vibration output. Used with analyst toolkit
- **-MB5:** Modbus over RS485

Software Options

VTU-CF: Configuration Software for all VTU1X products

- **-AT:** Analyst Toolkit Option, allows analyst to view FFT and time waveforms of vibrations at the sensor. Graphs frequency bands 1X thru 10X in real time. Great for troubleshooting. (**Select -RD option**)



VTU1X-MINI-A
In Explosion Proof Enclosure

For more information about the Riotech Instruments reciprocating monitoring units as well as other condition monitoring products contact:

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