

## **Minimize your reciprocating equipment shutdowns and repairs by monitoring machine condition before serious damage occurs.**

From its years of experience monitoring the condition of rotating and reciprocating equipment, **Riotech Instruments** has developed the VTU1X-102.

VTU1X-102 module monitors for catastrophic events such as water slugs and broken bolts, giving control equipment a complete response on change in condition in under 8 rotations.

The VTU1X-102 also indicates other mechanical problems like looseness, allowing repairs to be scheduled before serious damage occurs.

Each VTU1X-102 module can:

Monitor two accelerometer sensors

Output two 4-20 mA signals indicating energy in the synchronous band

Use a tach input when machine operational speed varies more than 20%

### **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: 2 - IEPE powered accelerometers  
Outputs: 2 - 4-20 mA Analog  
Update Rate:(depends on RPM)  
Partial-Under 4 revolutions  
Full-Under 8 revolutions  
RPM Range: 300 - 2000  
Voltage: 12 - 24VDC  
Power: ~ 1 Watt  
Optional: Tach input  
Class 1 Div 1 Approval: **FM**

### **RioTech Instruments LLLP**

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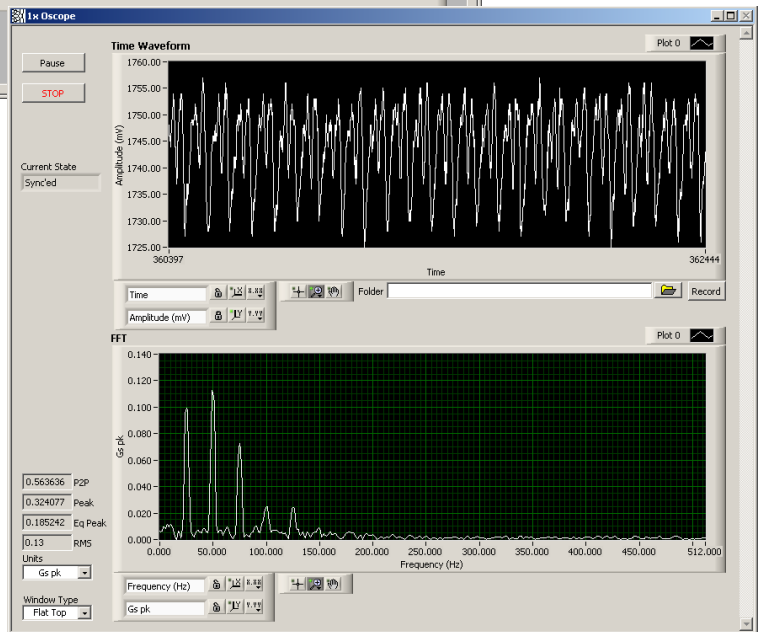
## VTU1X-102 additional features:



**History:** The VTU1X-102 stores historical data for later retrieval over USB connection.  
 One day of 1-second data  
 One week of 1-minute average and peak data  
 One year of 1-hour average and peak data



**VTU1X-102**  
**In Explosion Proof Enclosure**



**O'Scope Mode:** Use oscilloscope mode to help troubleshoot problems when an alarm is activated or to determine baseline condition. In this mode, the VTU1X-102 is basically a single-channel spectrum analyzer.

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

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