

## NEW VM-21 LVDT / Vibration Signal Conditioners With Backplane for TRICONEX TRICON V9



### VM-21 Series Conditioner

The VM-21 Series of signal conditioners feature small size, plug-in style, and low cost for Turbomachinery Applications.

The single-channel VM-21 modules accept input from LVDT, API 670 Compliant Non-contacting Vibration Sensors, Piezo-electric Accelerometers, or Velocity Sensors.

### VM-21H Backplane for Triconex Tricon V9

The VM-21H Backplane Unit provides a direct interface between VM-21 series LVDT/Vibration Signal Conditioners and the Tricon Version 9 32 ch analog input module through 56 way Elco System Cable. This backplane unit can mix and match VM-21 Series conditioner capabilities.

***With this combination, you may eliminate high-cost machine protection systems.***

#### Key Features

- Direct interface with Tricon with no wiring on the module
- Provides isolated 1-5Vdc output proportional to monitor range for Tricon
- Provides transducer driving voltage output
- Buffered transducer output for vibration analysis
- Burn-down function which detects field input failure
- Power supply voltage is either 85 to 264VAC or 24VDC
- The standard di-electric strength is 2000 V AC.



### Available VM-21 Series Modules

Module	Function	Monitor Range Options	Isolated Output Options
VM-21P	.S series LVDT input LVDT excitation output (5Vrms)	25/50/75/100/150/200/250/300/350/400/450 mm	1-5VDC or 4-20mA
VM-21K	Non-Contact Vibration Transducer Input 200mV/mil (787mV/100um) Transducer Driving Output (-24VDC)	0-100/125/200 um pk-pk	1-5VDC or 4-20mA
VM-21B	Piezo-electric Accelerometer Input 100mV/g Driving Output (24VDC)	0-15/25/50/100 mm/s pk 0-2/5/10/20 g pk	1-5VDC or 4-20mA
VM-21U	Velocity Sensor Input 100mV/in/s	0-100/200 um pk-pk 0-25/50 mm/s pk	1-5VDC or 4-20mA

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## VM-21H Backplane Unit Specifications

Description	Specifications
Analog I/O Channels	8 per backplane
Sensor Input Connection	M3.5 Screw Terminals
Backplane Connection	25-pin D Connector
Tricon Interface Connection	56 pin ELCO female system connector
Power Supply Options	85 to 264 VAC or 24VDC +/-10%
Mechanical Dimensions	444.5 x 130 mm

## Connection Architecture

