

The VibroRack3000 Monitoring System enables operators, vibration specialists, maintenance personnel, and others to acquire and display Machine Train vibration data at several different locations simultaneously. The VibroRack3000 System is intended for continuous, permanent monitoring of rotating and reciprocating machinery in a variety of industries, and is suitable for auto-shutdown machinery protection applications.

Performance

- **Input Type:**
 - System is able to interface with diverse transmitters /monitors /sensors also from third party:
 - ICP® / charge mode accelerometer
 - Displacement Sensors
 - Velocity Sensors
 - KeyPhasor®/ Tachometer
 - Other voltage/current driven sensors
- **Signal Conditioner:** Amplifier/integrator to obtain velocity or displacement response by integration
- **Frequency Response:** 1 Hz to 10 kHz (Optional)
- **Over Voltage:** 30 V Pk-Pk
- **Input Voltage:** 220 VAC
- **Current Output:** 4-20 mA
- **Accuracy:** 0.2mm/s ~ 100 mm/s
- **Dynamic Range:** 60dB
- **Phase Linearity:** (0.1 Hz to 10 kHz) ±1 deg
- **Analysis ability (optional)**

Environmental

- **Operating Temperature:** -40°C to +85°C
- **Storage Temperature:** -40°C to +85°C (-40°F to +185°F)
- **Humidity:** 0% to 95% non-condensing
- **Output voltage for eddy current transducer:** -24VDC (Optional)

System Compatibility

- **Monitoring Software:** Vibro-SCADA Software

Physical

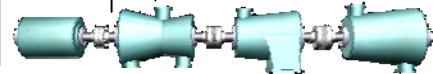
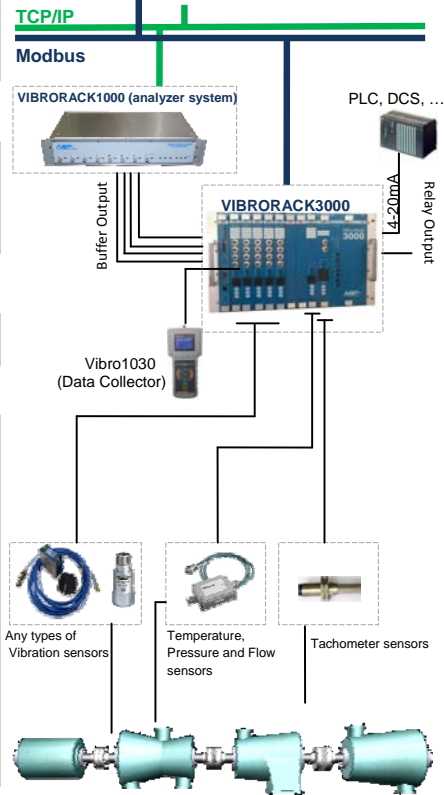
- **Housing:** Aluminum Alloy
- **Weight:** 3.2Kg
- **Dimension:** 426*277*259 mm
- **Input Channels:** 4 up to 28channels
- **Input Connector:** Screw Terminal
- **Mounting:** 19" Rackmount
- **Buffered Output:** for connection to vibration analyzer systems and portable data collectors
- **Relay output:** For connection to controller system (PLC, DCS,...)
- **Adjustable Full Scale Range:** Single Turn Potentiometer (0-100% Full Scale Range)
- **Bandwidth and Alias Rejection:**
 - **Specifications :** Low-Frequency Alias Rejection
 - **Alias-free bandwidth (passband):** 0.1~12000Hz
 - **Alias rejection, minimum**
 - **-3 dB bandwidth, 0.5 ~10000Hz**
- **Provides a 1amp, form C (SPDT) to relay output**

Certificate

- **Electromagnetic Compatibility:**
 - EMC(IEC61000-6-2,IEC61000-6-4)**
 - Radiated Emissions
 - Burst Test
 - Surge Test
 - Electrostatic Discharge Immunity Test
 - Power Frequency Magnetic Field Immunity Test
 - Voltage Dips and Short Interruption Immunity Test
 - Conducted EMI Measurements
 - Protection against Humidity and liquids
 - Lock Test
 - Safety(IEC61010)**
 - Protection against Shock
 - Protection against Hazards
 - Resistance to Mechanical load
 - Temperature limits and fire protection
 - Protection against Hot Temperature

Communications

- **Standard communication:** HMI (RS-485)Port, HMI (Modem) Port, Remote I/O Port



Rotating Machinery