



VIBRANT™

Standalone or Integrated with CCC's Control System

VIBRATION PROTECTION & MONITORING SYSTEMS

Unique Benefits

- Better machinery management by integrating surge control and vibration protection
- Common TrainView HMI package for controls and vibration displays
- High-performance systems purpose-built for years of trouble-free operation
- Pre-engineered accessories reduce design and installation time and costs

Platform and Hardware

- Designed for critical and essential machinery, including TSI
- Field-proven Reliant® or Vanguard® system monitors featuring IEC-61131 programming
- Field-configurable protection applications for alarming and shutdown
- Connectivity to proximity probes, velocity pickups, accelerometers, RTDs, TCs, and magnetic pickups
- Direct replacement from Metrix for obsolete transducers, cables and probe drivers
- Assortment of mounting adapters, cable seals and enclosures



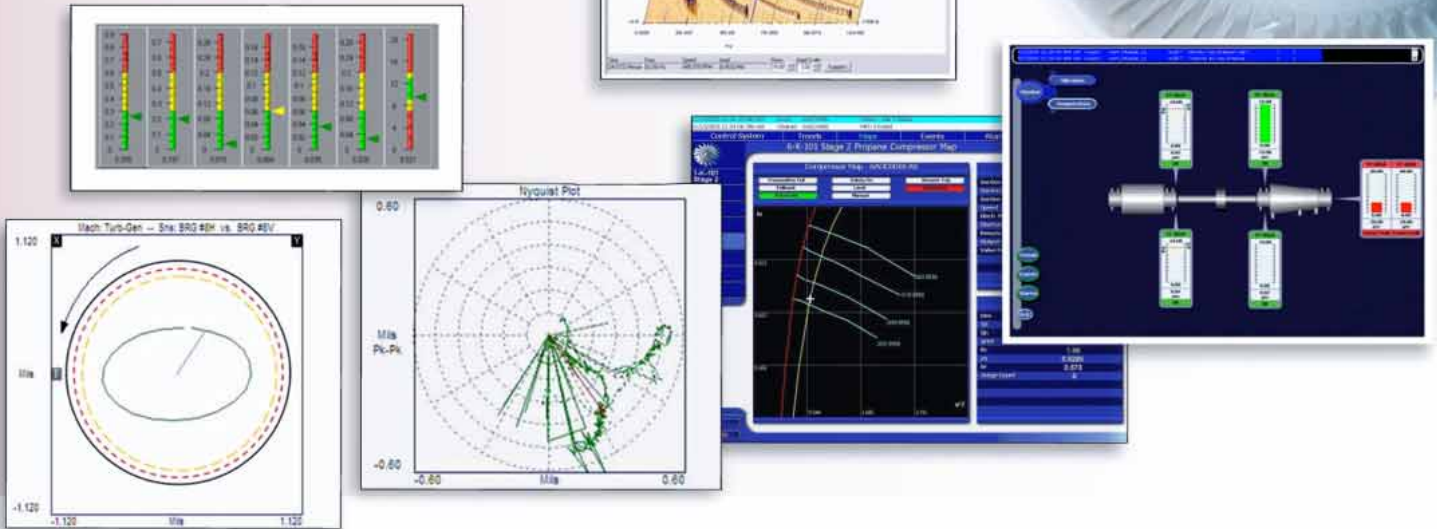
Specifications

- 40 dynamic channels, 22 process channels, 8 tachometer channels
- Dedicated 24-bit A/D converters
- Sampling rates up to 102.4 kHz (40 kHz analysis range)
- Configurable low-pass, high-pass and band-pass filters
- Power for industry-standard proximity and seismic vibration sensors
- Synchronous data acquisition and archiving for all 40 channels
- Hot swappable modules and power supplies
- Class-I, Div-II area certification (in process)
- Hazardous area operating temperature: -20 to 65°C
- API-670 (4th edition) performance compliance



HMI and Analysis Software

- Local and Remote TrainView (HMI)
 - Machine Schematics
 - Historian
 - Periodic Data Archiving
 - Event-driven Transient Data Archiving
 - Alarms and Events logs
 - Waveform, Spectral, Orbit plots
 - Bode/Nyquist, Shaft Centerline plots
 - Waterfall, Cascade plots
- MODBUS RTU and OPC Connectivity
- LAN & WAN Connectivity



Value to Customers Through Increased ROI

- Better machinery management by integrating surge control and vibration protection
- Single vendor for controls and vibration systems
 - Lower Lifetime Costs
 - Reduces initial capital outlay and recurring expenses
 - Highly-engineered products facilitate quick field installation
 - Achieve Higher Revenue through
 - Increased machinery availability
 - Extended safe operational regimes that allow higher throughputs
 - Shortened startup periods allow plants to reach maximum production rates faster
- Capabilities for new and retrofit projects
 - System Design and Project Management
 - Equipment Selection
 - Installation Supervision
 - Field Commissioning
- Service engineers in 11 worldwide locations
- Over 7,500 worldwide control system installations
- Experience in a wide variety of industries
 - Refining, LNG, Petrochemicals and Fertilizers
 - Pipelines, Gas Processing and Transmission
 - Power Generation
 - Utilities including Waste Water and Plant Air
 - Metals and Mining



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