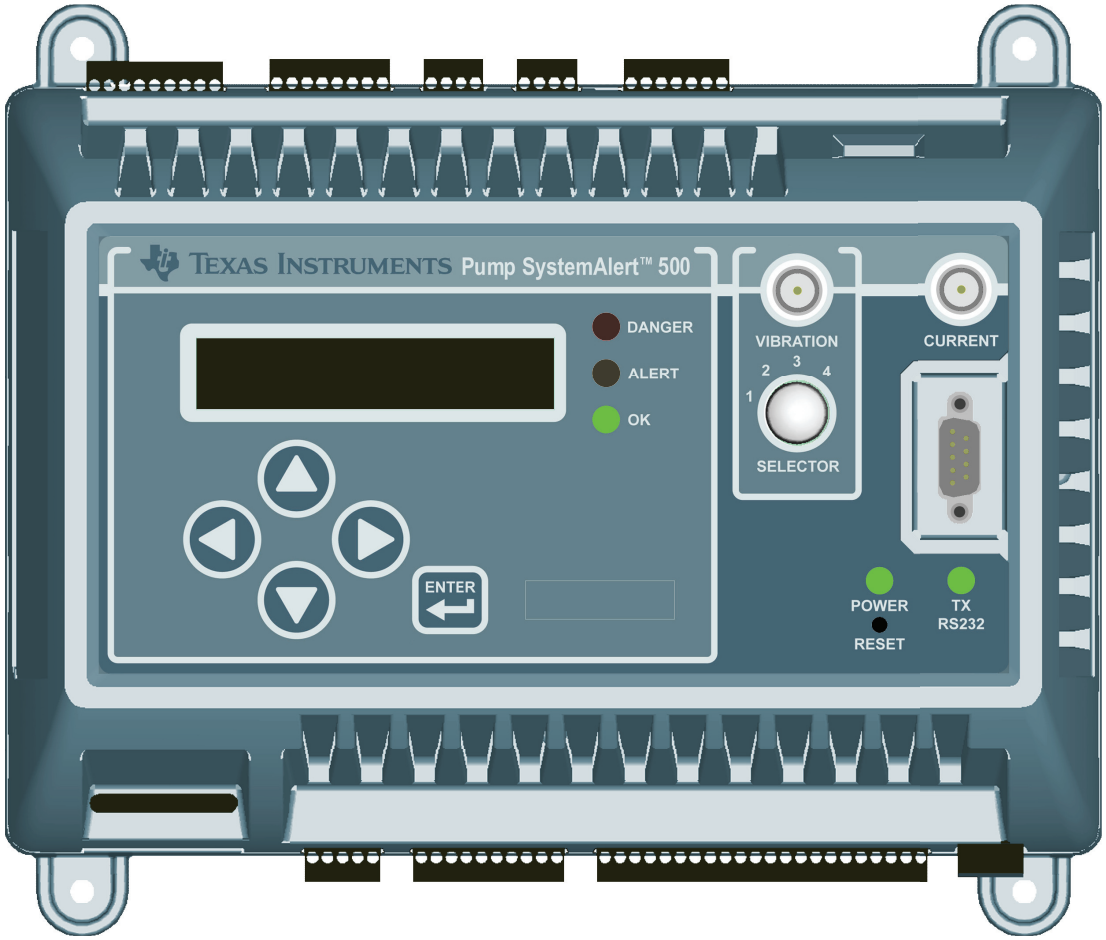
New Product

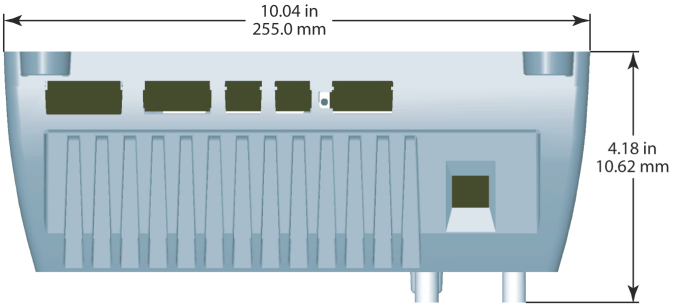
Available June 2005

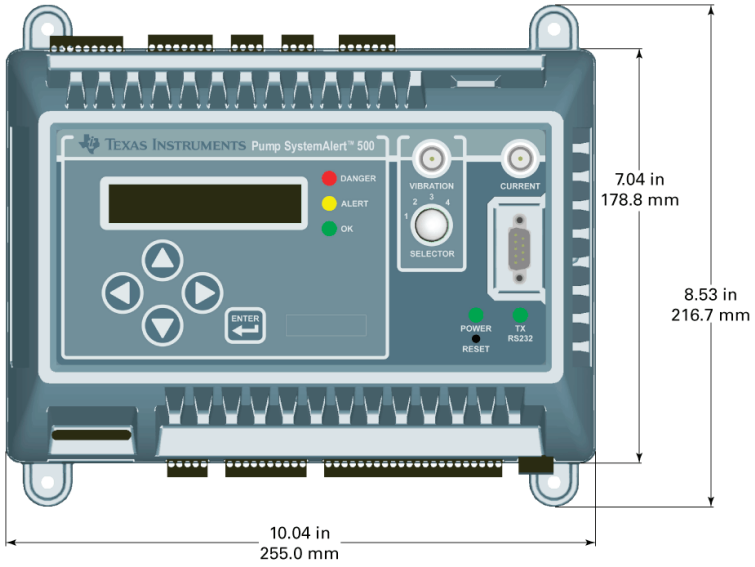
Texas Instruments Announces a New, Cost Effective Rotating Equipment Monitor– The Pump SystemAlert™



Features

- Monitors 3 phase voltage and current of the pump driver motor
- Monitors dynamic vibration using either accelerometers or velocity sensors
- Can detect rolling element bearing faults using enveloping
- Monitors process parameters using 4-20 mA process sensors
- Accepts vibration input from vibration transmitters
- Features three relays for secondary machine protection purposes
- Calculates vibration spectrums and motor current spectrums on-demand
- Communicates with plant network using Modbus protocols, no proprietary software required
- Small size, can be easily mounted
- Division 2 or Zone 2 hazardous areas





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Capabilities

- By monitoring motor voltage and current, load monitoring and a host of electrical parameters can be alarmed on, including locked rotor, phase imbalance, phase reversal and start time violation
- Hidden motor faults, such as cracked rotor bar, can be detected using motor current signature analysis (MCSA)
- Accepts 4 channels of dynamic vibration, either from accelerometers or piezo-velocity sensors
- Accepts 8 channels of process parameters from 4-20 mA sensors
- Accepts 2 channels of discrete input
- Measures shaft speed and can detect reverse rotation
- ALERT and DANGER alarms on most input and calculated values
- All input channels OK checked
- Using motor nameplate data only, user can automatically configure vibration alarm setpoints per ISO10816
- Virtually all measured and calculated parameters, alarm status and alarm setpoints can be communicated digitally via Modbus. No special proprietary software is required
- 800 line resolution spectrums of the dynamic vibration and motor current are available via Modbus communication protocols. No special proprietary software is required
- 4 channels of 4-20 mA analog output, configurable to virtually any measured input or calculated value
- Buffered outputs from dynamic vibration and motor current inputs
- 3 configurable relays
- Small size – 10.0 x 7.0 x 4.25 inches
- Self-contained, no plug-in modules
- Powered by an external 24 Vdc supply
- Simple to use self-contained configuration software included
- Hazardous area approvals pending:
  - North American: Class I, Division 2, Groups A, B, C and D (Class I, Zone 2, Group IIC)
  - European Union: Zone 2, Group IIC
  - International: Class I, Zone 2, Group IIC

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