vibDaq RIO On-Line

specifications

Designed to acquire, analyze, log and broadcast vibration data in harsh industrial environments

Utilizes cRIO hardware from National Instruments
- Features extreme industrial certifications and ratings:
    - -40 to 70 °C (-40 to 158 °F) operating temperature
    - Up to 2,300 Vrms isolation (withstand)
    - 50 g shock rating
    - International safety, EMC, and environmental certifications
    - Class I, Division 2 rating for hazardous locations
    - Dual 9 to 35 VDC supply inputs, low power consumption (7 to 10 W typical)
- COTS hardware is reliable, low-cost and easily extendable (utilizes NI 9234, 9233 or 9215A DAQ cards)

Performs online vibration monitoring to assess the health of your equipment
- Analyzes vibration characteristics in real time
- Checks values against user-defined alarm limits

Communicates with external systems
- Provides analog and digital outputs to transmit process values and alarm states

Integrates process data between test systems
- Sends and receives data using TCP/IP

Leverages easy-to-use configuration dialogs
- Save your data acquisition, analysis, logging and alarming settings to configuration files

Is a National Instruments LabVIEW®-based application
- Utilizes advanced toolkits for vibration analysis
- Modular code base can be customized to meet the specific needs of your application

Supports probe types including:
- Proximity probes, velocity probes, accelerometers
- Other (any voltage output sensor within the input voltage range)

Hardware

Vibration Channels	4 to 32
Tachometer Channels	0 to 8
Acquisition Rate	Up to 51.2 kHz per channel with Antialiasing Filter
Acquisition Method	Simultaneous
Analog to Digital Resolution	24 bits
Input Ranges	$\pm$ 5 volts
Input Coupling	AC or DC
IEPE Power	Software selectable per channel
Alarm Outputs	Contact Closure
Sensor Connections	BNC