

Data Acquisition Hardware



ExpertALERT 4.0 – The Analyst's Application

ExpertALERT™ provides critical machinery health information in addition to vibration data, by rapidly screening vibration measurements and applying over 6000 unique rules to identify over 1200 individual faults in a wide variety of machine types. Our proven automated machinery condition assessment system can process hundreds of vibration measurements in just a few minutes leaving you with a fault diagnosis, fault severity and repair priority and action. Instead of overwhelming you with data that is difficult to interpret, ExpertALERT™ provides fast and accurate screening that will lead to better diagnostic results.

ALERT Online Engine™ – The ultimate data acquisition software

ALERT Online Engine™ manages the data collection and communication on the network with configuration utilities. In addition to support of new data types, this software significantly improves communication between multiple hardware acquisition devices and the centrally-hosted diagnostic software. WATCHMAN Online Systems can also be integrated with portable data collection programs.

4+4 channel data acquisition hardware

- 4 simultaneous channels of vibration data
- 4 additional multiplexed DC signals for process parameters
- Powered either from a 10-30V DC supply or internal batteries 1 year life estimated with once per 12 hour data acquisition with batteries.
- Single or triaxial sensors per machine location, wired directly to the SPRITE i400 data acquisition device
- Wireless 802.11 standard network connection
- Can be combined with SPRITE i400, SPRITE i800 and TRIO Portable data acquisition devices
- Spectral lines Up to 12,800
- Bandwidth Ranges: 0.5Hz-25Hz to 0.5Hz-40kHz

Processing:

- ADC: 24 bit simultaneous on channels 1-4, 16 bit multiplexed on channels 5-8
- Sampling Rate: 64Hz to 102.4kHz (channels 1-4)
- Bandwidth Ranges: 0.5Hz-25Hz to 0.5Hz-40kHz
- Block Lengths: 256 to 32768
- Spectral lines: Up to 12,800

Wireless and battery- powered puts SPRITE in more remote locations. With SPRITE™ data acquisition hardware and ExpertALERT™ automated diagnostic software, you have access to actionable information to keep your production up and running.

Dynamic Inputs (Channels 1-4):

- No of Channels: 4
- Ranges: +/- 5V
- ICP Interface: 2.4 mA @ 20Vdc
- Other Coupling: AC, configurable per channel
- Measurements Integrated on: Acceleration, displacement, demodulation, velocity via software
- Anti-Alias Filter: Compound analog and digital filter
- Bias/Gap measurement: +/- 25V range for ICP bias voltage and eddy probe gap Measurement
- Amplitude Accuracy: +/-2% typical passband
- Demodulation Function: Azima DLI's proprietary Impact Demod

DC Inputs (Channels 5-8):

- No of Channels: 4
- Ranges: 4-20mA Input: 100 ohm load, jumper selectable

Trigger:

- 2 (one analog/digital, one digital)
- 5V to 24V digital pulse, or analog in range +/- 20V

Mechanical:

- Glass reinforced polyester, NEMA 4, IP66
- Dimensions: 22 cm (8.5") x 12cm (4.6") x 9 cm (3.5")
- Weight: 1.4kg (3 lbs)

Environmental:

- Temperature: -20 C to +70 C
- Compliance: CE, RoHS

Power:

- Input Power: Battery or DC power (10 to 36Vdc)
- Battery Type: Two x lithium 3.6V 'C' cell type LSH 20
- Battery Monitor: Internal battery monitor and critical battery shutdown
- Isolation: 1500V from DC power input

Communications:

- Network: 802.11 b/g/n WiFi compatible
- Addressing: Static IP or DHCP
- Speed: Up to 54 Mbps/sec
- Encryption: WEP, WPA/WPA2, PSK (TKIP, AES)
- Wake-up Mode: programmable from one minute to one day via software interface

Minimum Server Requirements:

- Microsoft® Server 2008 or Server 2012 (Eng/US-Native OS)
- Physical server or virtual machine (VM)
- Free disk space: 100GB
- Processors: 2 CPU, 1.8 GHz minimum
- RAM: 4GB minimum
- Microsoft Message Queuing enabled
- Microsoft .NET framework 4.5.1

Note:

- Technical Specifications are subject to change.



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