Sprite i1600 – 16 Channel

Data Acquisition HardwareData Acquisition Hardware

Delta-3N Ltd.

ExpertALERTTM– 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 EngineTM – The ultimate data acquisition software

ALERT Online EngineTM manages the data collection and communication on the network with con guration 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.

16 multiplexed inputs offer straight-forward online monitoring.

- 16 multiplexed analog inputs
- Can be connected to as many as sixteen individual ICP accelerometers with data acquired one channel at a time
- SPRITE i1600s communicate (with ExpertAlertTM and Alert Online EngineTM) via a standard 10BaseT Ethernet interface and support UDP/IP
- Housed in an IP-66 rated NEMA 4 enclosure with a power supply.
- Can be combined with SPRITE i400, SPRITE i800 and TRIO Portable data acquisition devices
- Bandwith ranges: 0.15Hz-25Hz to 0.15Hz-20kHz
- 4 Trigger channels
- IP-66, NEMA4X enclousure

Sprite i1600 – 16 multiplexed inputs offer straight-forward online monitoring.

Processing:

- ADC: 16 bit
- Sampling Rate: 64Hz to 51.2kHz
- Bandwidth Ranges: 0.15Hz-25Hz to 0.15Hz-20kHz
- Dynamic Range: 96dB (theoretical)
- Block Lengths:256-32768

Dinamikus bementek (Csatornák 1-16):

- No of Channels: 16
- Ranges: +-10mV to +-10V. 7 ranges (prog.)
- ICP Interface: 3.6mA @24Vdc, configurable per channel
- Other Coupling: AC or DC, configurable per channel
- Voltage Protection: Overvoltage and up to 2000V ESD
- Bias Check: Direct reading of ICP transducer bias voltage
- Anti-Alias Filter: Compound analog filter with roll-off better than 20th order filter with cut-off frequency related to sample rate
- High Pass Filters: Programmable 4th order with corner frequencies 0.5, 2, 10 and 100 Hz
- Channel Crosstalk: -75dB (typ.)
- Amplitude Accuracy: +-2% typical passband
- Harmonic Distortions: -75dB (typ.)
- Integration: One level of hardware integration stop-band edge at 0.5Hz
- Acquisition Modes: As controlled by ExpertALERT and ALERT
- Online Engine: Continuous, established intervals, set times/day
- Demodulation: Azima DLI's proprietary Impact Demod

Trigger:

- No of Channels: 4
- Coupling: 5-24 VDC, isolated or non-isolated
- Tachometer: 0.01Hz-10kHz using once-per-rev (divide-by-N up to Speed Range 255 available)

Mechanical:

- Protection: NEMA 4, IP66
- Dimensions: 400 mm x 300 mm x 155 mm

Environmental:

- Temperature: -20 C to 70 C

Power:

- Power Supply: 7-12Vdc or 24Vdc, or 85-260V ac power supply (optional)

Communications:

- Network: 100BaseT Ethernet (CAT5/
- Status: 4 LED's
- Interface Port: RS232, 9600 baud for system configuration

Note:

- Technical Specifications are subject to change.

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