Sprite i800 – 8+8 Channel

Data Acquisition Hardware

ExpertALERT 4.0 – The Analyst's Applica on

ExpertALERT™ provides cri cal machinery health informa on in addi on to vibra on data, by rapidly screening vibra on measurements and applying over 6000 unique rules to iden fy over 1200 individual faults in a wide variety of machine types. Our proven automated machinery condi on assessment system can process hundreds of vibra on measurements in just a few minutes leaving you with a fault diagnosis, fault severity and repair priority and ac on. Instead of overwhelming you with data that is difficult to interpret, ExpertALERT™ provides fast and accurate screening that will lead to be er diagnos c results.

ALERT Online Engine™ – The ul mate data acquisi on so ware

ALERT Online Engine™ manages the data collec on and communica on on the network with con gura on u li es. In addi on to support of new data types, this so ware signifi cantly improves communica on between mul ple hardware acquisi on devices and the centrally-hosted diagnos c so ware. WATCHMAN Online Systems can also be integrated with portable data collec on programs.

8+8 channel data acquisiton network device

- 8 Simultaneous ICP Accelerometer plus
- 8 Mul plexed DC input acquisi on device (supports ICP accelerometer, dynamic, and DC voltage signal ranges +/- 10V)
- Single or triaxial sensors per machine loca on, wired directly to i800 acquisi on device
- One-year ba ery life at twice-per-day data acquisi on (or DC power)
- Communica on: 802.11 b/g/n Wi-Fi compa ble, 100BaseT Ethernet (CAT5/6)
- Compa ble:
  - # SPRITE™ i1600 – 16-channel mul plexed data acquisi on device (ICP accel., AC or DC coupled)
  - # SPRITE™ i400 – 4-channel simultaneous data acquisi on device, ba ery-powered, wireless
  - # Op onal: OPC Client So ware (scalar informa on)
  - # Op onal: Server internet access
- Spectral lines: up to 25,600
- Bandwidth Ranges: 0.5 Hz – 40 000 Hz

Delta-3N Ltd.

Multiple power options and 8+8 channels makes this the most versatile SPRITE yet.

Processing:

- ADC: 24 bit simultaneous, dynamic channels 16 bit mul plexed, DC channels
- Sampling Rate: 64Hz to 102.4kHz (dynamic channels)
- Bandwidth Ranges: 0.5Hz-25Hz to 0.5Hz-40kHz
- Block Lengths: up to 250,000
- Spectral lines: up to 25,600

Dynamic Inputs (Channels 1-8):

- No of Channels: 8 simultaneous (banks of 3)
- Ranges: +/- 10V
- ICP Interface: 2.4 mA @ 20Vdc
- Other Coupling: AC, configurable per channel
- Measurements: Accelera on, displacement, demodula on, velocity via so ware integra on
- An -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
- Demod Func on: Azima DLI's proprietary Impact Demod

DC Inputs (Channels 1-8):

- No of Channels: 8 mul plexed
- Ranges: 0 to +3V and 0 to +10V, jumper selectable
- Trigger: One analog/digital, one digital/Namur)

Indicators:

LCD Display: Backlit LCD, 7 lines x 21 charac

Mechanical:

- Protec on: NEMA 4, IP66
- Enclosure: Al Si 12 grade (LM24) Die-cast aluminum alloy
- Dimensions: 26cm x 16cm x 9cm
- Cable entry: 16 glands, IP68, 3mm to 6.5mm
- Weight: 7.5 pounds (without ba eries or antenna)

Environmental:

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

Power:

- Input Power: Ba ery or DC power (10 to 30Vdc)
- Ba ery Type: Two x lithium 'D' cell type LSH 20 (transportable op on available)
- Ba ery Monitor: Internal ba ery monitor and cri cal ba ery shutdown
- Isola on: 1500V from DC power input

Communica ons:

- Network (LAN): 100BaseT Ethernet (CAT5/
- Network (WLAN): 802.11 b/g/n WiFi compa ble
- Speed: Up to 54 Mbits/sec (depending on LAN or WLAN)
- Encryp on: WEP, WPA/WPA2, PSK (TKIP, AES)
- Wake-up Mode: programmable from one minute to one day via so ware interface
- Addressing: Sta c IP or DHCP

Note:

- Technical Specifica ons are subject to change.

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