

IoT-PREDICT Datasheet

Condition Monitoring and Predictive Maintenance



Start with 1, 10 or 100 machines
and experience a new era in
remote machine monitoring.

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Need Smart Machine Monitoring?

Legacy systems are inflexible, suffer from proprietary lock-ins and are daunting to implement. Newer, Internet of Things (IoT) offerings have promised much - but to date have been incomplete, and mostly suitable for harsh industrial environments.

Multi-sensor, any time, anywhere Smart Monitoring

Now, through a ground-breaking partnership between Dell, Microsoft and ActionPoint, condition monitoring is undergoing a paradigm shift; and moving to the promised land of end-to-end, flexible, accurate and cost-effective secure monitoring.

IoT-PREDICT - a revolution in Machine Monitoring

The IoT-PREDICT solution pre-integrates industrial-grade vibration, temperature and current process sensors which are connected to a Dell Edge Industrial Gateway.

This in turn is conveniently pre-configured to store and forward the sensor data in near real-time to the Microsoft Azure IoT Platform - where a suite of ready to use tools are available to quickly and easily visualise the data, run advanced queries and build SMS and email based alerting rules.

Specifications:

Dell Edge Gateway 3002

- Intel Atom Processor E3805 1.33GHz (1 MB L2 cache)
- 2GB DDR3L 1067MHz Memory
- 32GB eMMC onboard storage
- LAN: 2 x 10/100 Fast Ethernet: RJ-45; PoE on Main Port
- WLAN: 2.4GHz, 802.11 b/g/n
- WPAN: Bluetooth Low Energy 4.0; Integrated zigbee/802.15.4 module
- WWAN: Cellular 3G Card
- USB: 1 x USB 2.0; 1 x USB 3.0
- Antenna ports: Wi-Fi/BLE/GPS/3G/zigbee
- CAN bus: CAN2.0 NB/FD
- Integrated MEMS: Accelerometer, Pressure, Temperature and Humidity Integrated GPS module
- Fanless Form Factor; Dimensions 125 mm wide x 125 mm high x 51 mm deep; Weight 1 kg +/- 0.02 kg
- Quick release DIN-rail mount; 75x75mm VESA
- Operational and Non-Operational Shock - all axis up to 160G;
- Operational and Non Operational Vibration - all axis up to 1.54 Grms, 1 hr/axis; Long Life Vibration - all axis up to 0.79Grms / Shrs
- Operating Temperature: -30C (-22F) to 70C (158F); No forced air or airflow required IPSO rating

Sensor Array

- IO-Link Master: Profinet interface; DIN Rail Mounted
- Vibration Transmitter: IO-Link; 4-20Ma; RMS 0-25 mm/s; M12 connector Temperature Sensor: IO-Link; 4-20Ma;
- Measuring range: -50-300 °C / -58-572 °F; Bolt-on
- Current Transducer: IO-Link; 4-20Ma;
- Current Measuring Range AC: 0A to 20A; Split Core
- Switched Mode PSU: 24 V DC; DIN Rail Mounted

Microsoft Azure IoT Services

- OT Hub; Stream Analytics; Time Series Insights; App Services; Azure SQL; Azure Service Bus; Azure Functions; Blob Storage.

Packaging

- Dimensions: W465mm x D360mm x H238mm
- Weight: 8.5Kgs

Warranty

- All hardware parts 5Yr RTB Manufacturer Warranty



More information

Please ask your local sales contact or contact us at
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