Watchport[®] Sensors for Drop-in Networking

Environmental Monitoring Solutions

Create a Drop-in Network with sensors to monitor critical environmental data over a wireless connection.

Overview

Watchport sensors provide a plug-and-play solution for Dropin Networking applications. Each sensor connects to Digi's XBee® sensor adapter (sold separately) for wireless connectivity to sensor data over a low power ZigBee network. Sensors are available to measure distance, proximity, temperature/humdity, acceleration/tilt, and the presence of water. Monitoring remote assets with Watchport sensors can preempt damage to facilities, reduce costly maintenance and warn of threatening environmental conditions.

When used in a Drop-in Network with Digi's ConnectPort[®] X gateways, Watchport sensors can be monitored over a Wide Area Network (WAN) connection, providing centralized monitoring of geographically distributed sensor points. Plus, the Python[®] programming engine on the ConnectPort X provides the software tools to integrate multiple sensors and create custom applications using sensor readings.

Watchport sensors can be used in many Drop-in Networking applications. Monitor temperature and humidity levels in a refrigeration unit or grain silo; detect the presence of water in a livestock pen; activate a Watchport camera or an alarm when an access point is encroached; or reduce energy consumption by automatically powering down lights or other environmental systems when inhabitants are no longer detected.

Application Highlight



Features/Benefits

- Ideal for remote monitoring of critical environmental data
- Plug into Digi's XBee sensor adapter (via RJ-45 connector) for wireless ZigBee[®] connectivity
- No external power supply required; draws power from XBee sensor adapter (via RJ-45 connector)
- A' la carte product selection allows total customization
- Easy to install and configure
- Extend distance between sensor and XBee Sensor Adapter with CAT5 UTP cable



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Features Comparison



Watchport Sensors for Drop-in Networking must be used with XBee Sensor Adapters.

See www.digi.com/products/wirelessdropinnetworking/ for XBee Adapter specifications.

You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support

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Maximum CAT5 UTP cable length:

1,000 ft (304.8 m)

acceleration (gravity) • Measures tilt to 0.1° • Acceleration from -2g to +2g

Watchport/A Accelerometer

Dual axis accelerometer

Measures dynamic acceleration such as vibration or static

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