Watchport® Sensors
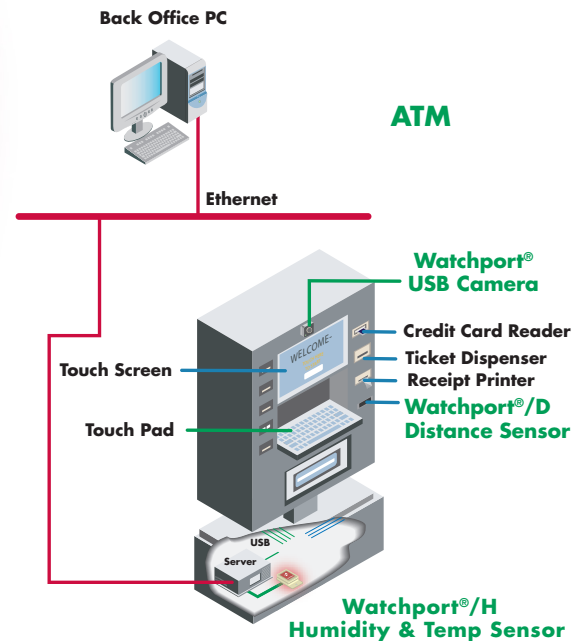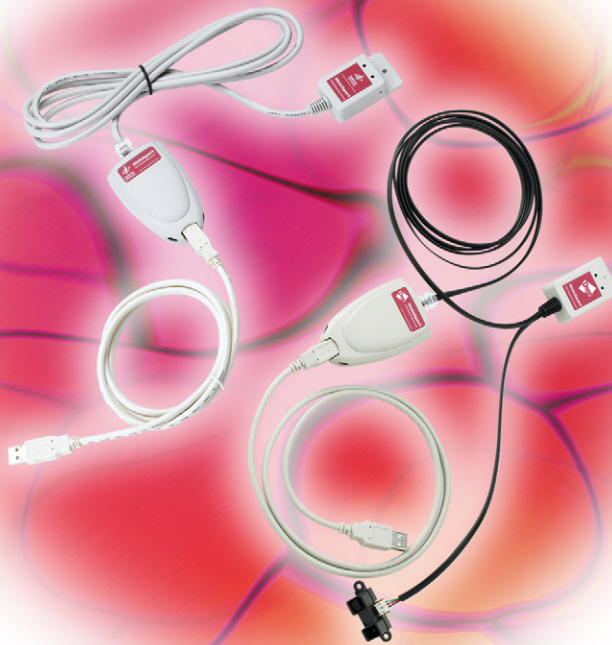
USB Environment Monitoring Solutions

Create a made-to-order asset monitoring system with USB sensors.

Back Office PC

ATM

Ethernet

**Watchport®
USB Camera**

Credit Card Reader

Ticket Dispenser

Touch Screen
Receipt Printer

**Watchport®/D
Distance Sensor**

Touch Pad

USB
Server

**Watchport®/H
Humidity & Temp Sensor**

Features/Benefits

> **Ideal for remote monitoring in POS (kiosks, ATMs), medical, data center and other security applications**

> **A´ la carte product selection allows total customization**

> **Easy to install and configure**

> **Free Watchport Manager software sends alerts for remote monitoring**

> **Extend distance between sensor and host with CAT5 UTP cable**

> **API available for application software development**

> **Microsoft® Windows® compatible**

Overview

The Watchport Series includes the first complete line of Plug and Play USB sensors for environment monitoring. Sensors are available to measure distance, proximity, humidity, temperature, acceleration, tilt and presence of water. Creating a made-to-order monitoring system with Watchport sensors can preempt damage to equipment and facilities and also reduce costly system downtime and maintenance in mission-critical environments such as kiosks, ATMs, server rooms, warehouses and data centers.

Watchport Manager software, included with each sensor, provides centralized device status, supports data logging to preserve historical information and enables the easy integration of multiple sensors without additional software development. For remote monitoring applications, Watchport Manager can provide alerts via email, pager and computer screen, or send an event trigger to an external application.

The application possibilities are almost endless. Monitor temperature and humidity levels in a server room; detect the presence of water in an ATM; activate an information kiosk monitor when a shopper is nearby; or protect confidential information by automatically ending a session at a human resources kiosk when the user is no longer detected. For added flexibility, multiple Watchport sensors may be configured and remotely monitored on an IP network with AnywhereUSB®.

Digi International makes device networking easy by developing products and technologies that are cost-effective and easy to use. With over 20 million ports shipped worldwide, Digi has been offering the highest levels of performance, flexibility, and quality since 1985.

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Making
DEVICE NETWORKING
easy ™

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Watchport Sensors | Features and Specifications

FEATURES

- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- Includes:
  - Base unit with USB cable to host PC
  - Sensing device with CAT5 cable to base unit
  - Windows driver software
  - Watchport Manager software
- ASCII command interface available for integration with application software
- Remotely monitor and configure multiple sensors on an IP network with AnywhereUSB/5

Watchport Manager Software

- Centralized device status
- Historical data logging
- User-defined thresholds
- Cell phone, pager, email and onscreen alarms for remote monitoring
- Easy integration of multiple sensors without additional software development
- Minimizes into system tray to save screen space
- Free with Watchport sensors

Watchport/H Humidity & Temperature Sensor

- Collects both relative humidity (RH) and temperature data
- Temperature compensated RH readings
- Configurable Watchport Manager alarm thresholds
- ASCII command interface
- Maximum reading rate: 20 per second
- Temperature accuracy: +/- 3.6º F (+/- 2º C) at -40º F to 14º F (-40º C to -10º C) and +/- 0.9º F (+/- 0.5º C) at 14º F to 185º F (-10º C to 85º C)
- RH accuracy: +/- 5% at 0-90% non-condensing; +/- 8% over 90%
- RH stability: +/- 1% RH (typical) at 50% RH in 5 years
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

FEATURES (CONT.)

Distance & Proximity Sensor

- Photo-electric sensor with hardware controlled sensitivity
- Enables system event triggering with Watchport Manager
  - Automatic log-off
  - Automatic system lock
  - Run user-selectable files such as screen savers, batch files, scripts and executables
- Detection range 1.6 to 4.9 ft (0.5 to 1.5 m)
- Maximum reading rate: 3 per second
- Maximum switching frequency: 100 Hz
- Response delay: ≤5.0 ms (typical)
- Power consumption: 70 mA (max)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

Watchport/T Temperature Sensor

- Configurable Watchport Manager alarm thresholds
- ASCII command interface
- Maximum reading rate: 20 per second
- Temperature accuracy: +/- 3.6º F (+/- 2º C) at -40º F to 14º F (-40º C to -10º C) and +/- 0.9º F (+/- 0.5º C) at 14º F to 185º F (-10º C to 85º C)
- Temperature resolution: 0.1º C
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

Watchport/W Water Detector

- 2 gold plated pins detect wetness on a non-conductive surface
- Binary output with "Wet" or "Dry" readings
- Waterproof enclosure
- Maximum reading rate: 5 per second
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 1,000 ft (304.8 m)

Watchport/A Accelerometer

- Dual access accelerometer
- Measures dynamic acceleration such as vibration or static acceleration (gravity)
- Measures tilt to 0.1°
- Acceleration from -2g to 2g

OPERATING SYSTEMS

- Windows XP, Windows XP Embedded
- Windows NT® 4.0, Windows NT Embedded
- Windows CE
- Windows 2000/Me
- Windows 98/SE
- Windows 95
- Windows Server™ 2003

REGULATORY APPROVALS

- FCC Part 15, Class B
- CE
- EN55022
- EN55024
- EN60950
- UL 1950
- CSA 2.2 No. 950
- IEC-950

ENVIRONMENTAL

USB Base

- Operating temperature: 32º F to 149º F (0º C to 65º C)
- Relative humidity: 0% to 95% (non-condensing)

Sensing Device

- Operating temperature: -40º F to 185º F (-40º C to 85º C)
- Relative humidity: 0% to 95% (non-condensing)

POWER REQUIREMENTS

- USB-powered (no external power supply required)

DIMENSIONS

USB Base
- Length: 3.15 in (8.00 cm)
- Width: 1.75 in (4.45 cm)
- Height: 0.80 in (2.03 cm)
- Weight: 3.00 oz (85.05 g)
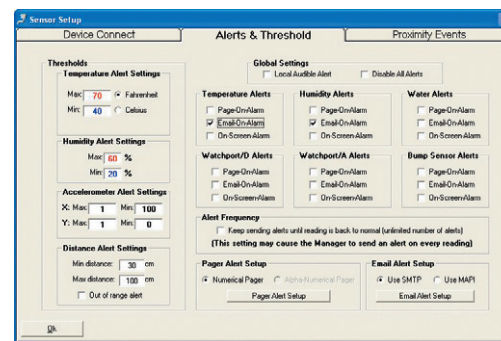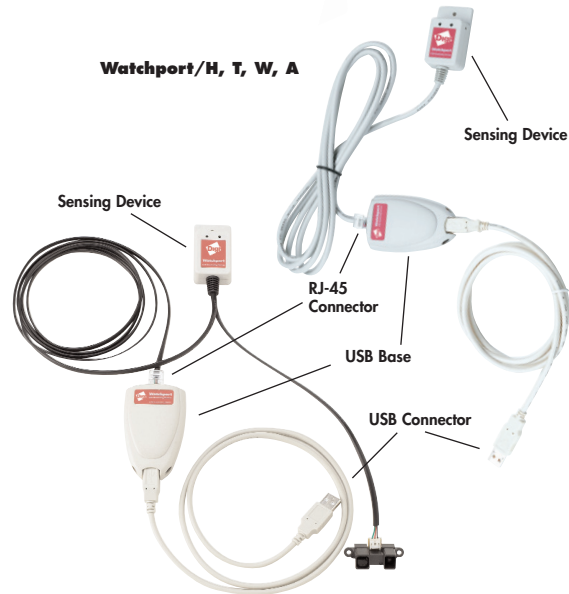
Sensing Device (Watchport/H, T, W, A)
- Length: 2.12 in (5.39 cm)
- Width: 1.19 in (3.02 cm)
- Height: 0.69 in (1.75 cm)
- Weight: 3.00 oz (85.05 g)

Sensing Device (Watchport/D)
- Length: 1.75 in (4.45 cm)
- Width: 0.74 in (1.88 cm)
- Height: 0.85 in (2.16 cm)
- Weight: 3.00 oz (85.05 g)

Sensing Device (Watchport/P)
- Length: 3.15 in (8.00 cm)
- Width: 1.75 in (4.45 cm)
- Height: 0.80 in (2.03 cm)
- Weight: 3.00 oz (85.05 g)

Watchport/H, T, W, A

Sensing Device

Sensing Device

RJ-45 Connector

USB Base

USB Connector

Alerts and thresholds

MODEL......................PART NUMBERS

Model	North America	International
Watchport/H (Humidity/Temperature Sensor)	301-1141-01	301-1141-01
Watchport/D (Distance/Proximity Sensor)	301-1146-01	301-1146-01
Watchport/P (Proximity Sensor)	301-1143-01	301-1143-01
Watchport/T (Temperature Sensor)	301-1144-01	301-1144-01
Watchport/W (Water Detector)	301-1145-01	301-1145-01
Watchport/A (Accelerometer)	301-1147-01	301-1147-01

Additional Watchport Sensors in development. Contact us for details.

Watchport USB cameras, motion detection software and facial recognition software also available. See website for details.

DIGI SERVICE AND SUPPORT

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