

iWatch

Sensor Management Group, LLC

Protect degradable, organic, and other evidence from refrigeration failures in your evidence room or crime lab.



Sensor Management's wireless monitoring solution provides 24x7 monitoring of your refrigeration units.

Historic temperature compliance records are secure, easily accessible, and can be used in court to prove that perishable evidence was properly maintained.



Monitor Temperature and/or Humidity Wirelessly and Continuously

- *via cell phone*
- *via e-mail*
- *via the web*



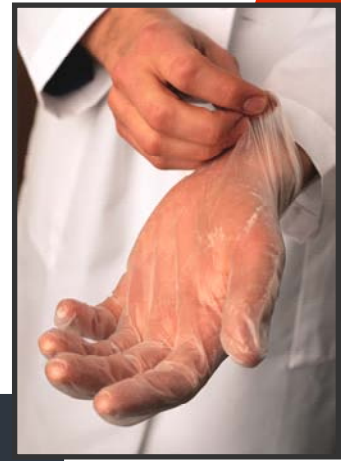
SMG's iWatch™ is a wireless sensor application that also alerts you if temperature and/or humidity conditions deviate from programmed setpoints 24x7.

Crime Labs and Evidence Rooms



The iWATCH™ Monitoring Solution

As an SMG customer and iWatch™ subscriber, temperature and humidity readings of your evidence or crime lab refrigerators are never more than a computer and Internet connection away. There is no software to install. Simply point your web browser to the iWatch™ URL, log in, then review current and archived data.



Sensor Management Group's complete and scalable monitoring solution can be implemented quickly and inexpensively.

Wireless Network Specifications

Item	Description
Security	None, WEP 128, WPA-PSK, WPA2-PSK, and WPA/WPA2-PSK mixed mode
Range	900 feet (68 mw radio) (open field)
Signal Strength	Greater than -63dbm (recommended)
DHCP	DHCP caching, holding the lease until the IP address is no longer valid

Sensor Specifications

Item	Description
Battery Type	Off-the-shelf, 1.5v L91 AA Batteries (2)
Battery Life	>14 months (w/ 10 min transmit rate)
Temperature Range(s)	-50C to 125C (standard probe) -200C to 125C (extended range probe) -50C to 125C (thermobuffer probe)
Sampling Rate	Inputs sampled every 15 seconds
Transmit Rate	4 to 120 minutes (typical = 10 min)
Agency Compliances	FCC, CE and IC Compliant
Transmission	UDP data packet to a specified URL and port
Packet Size	73 bytes

Key Solution Benefits:

- Relocate Sensors Easily
- Cell Phone Text Alerts
- 24x7 Solution
- Very Small Footprint
- No Software to Install
- Web Access and E-mail Alerts
- 802.11 Wi-Fi Wireless Monitoring
- Secure Access and Data Archives
- No Power Cords or Network Cables to Run

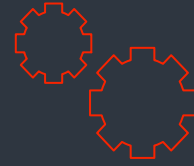
The iWatch™ Solution

- Monitor temperature
- Create customized alert limits
- Alarm alerts 24x7
- Check status from your web browser
- E-mail and text alerts
- Readings every 10 minutes
- Analyze report data for unusual temperature cycling to predict potential equipment failures and refrigeration inefficiencies.



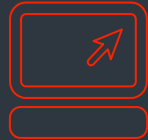
SMG's iWatch™ software solution receives, analyzes, actions, reports, and archives sensor data 24x7.

Don't let after-hours refrigeration malfunctions destroy your perishable lab work or degradable crime scene evidence. SMG's portable iWatch solution is on duty 24x7.



THE TECHNOLOGY

SMG's solution uses IEEE 802.11 wireless communications, wireless (battery-powered) sensors, your compatible wireless network, and the internet. The solution also takes advantage of wireless text message alerts delivered directly to your cell phone to provide "go anywhere" wireless monitoring.



THE SOLUTION

For peace-of-mind, simply:

- Configure your sensor(s).
- Verify Wi-Fi communications
- Add the sensor(s) to any Wi-Fi-served zones to be monitored.
- From your browser, login to www.intellisensordata.com.
- Set your preferences.
- Check conditions.
- Use archived data reports to validate proper evidence storage and to predict equipment failures.



CUSTOM DESIGNS

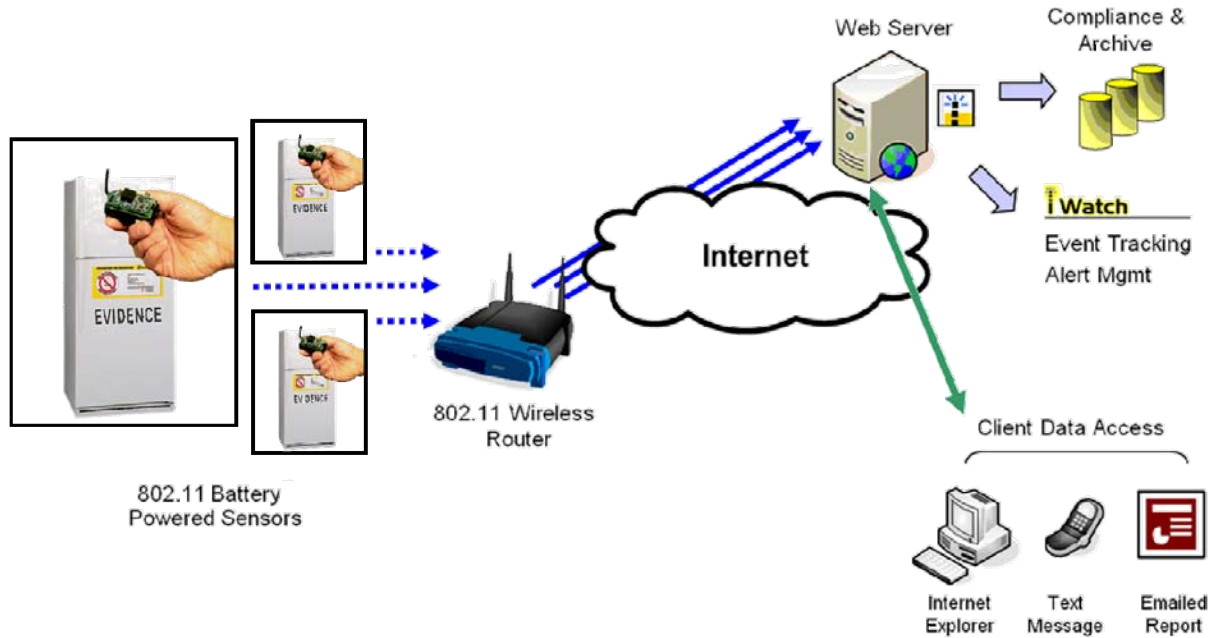
Have a unique situation? Don't have an existing Wi-Fi network? Already have wireless sensors, but no intelligent "front end"? Not sure if your wireless network is compatible? Contact us at info@sensormgmt.com.



iWatch™ is a 24x7 automated solution.

- **Sensor status anytime via the internet**
- **Easily scalable solution**
- **Alerts for out-of-range conditions**
- **Access to historic data to validate proper evidence storage**

Typical architecture diagram of an iWatch™ temperature and humidity monitoring solution using wireless sensors, the existing wireless Wi-Fi network, existing internet technology for remote monitoring, and e-mail and cell phone text messaging technologies to issue out-of-range alerts 24x7.



SMG's iWatch™ system can **automatically notify you** via text message or e-mail **anytime** programmable humidity and/or temperature thresholds are exceeded. Remotely (and securely) monitor the environmental conditions of the evidence refrigerators in your crime lab or evidence room from any web-enabled browser.

From Sensor Management

You are logged in as: User
Sign Out

iWatch Dashboard

File Setup Admin Tools Help

~This page automatically refreshes every 60 seconds.

Summary

Report Title: **Acme Police Dept – Evidence Room**
Wednesday March 10, 2010 02:13 AM EDT

Out-of-Range Alarm Conditions

Rolling 24-Hour Averages

Node	Location	Alarm	Reading Type	Reading	Last Update	Min	Max	Avg	Actions
1	Evidence Refrigerator #1	✗	Temp	41.6 F	03/10/10 2:12 AM EDT	38.2 F	45.5 F	42.2 F	🔍 🗑️
2	Evidence Refrigerator #1	✓	Humidity	65.6%	03/10/10 2:12 AM EDT	39.7%	65.6%	51.8%	🔍 🗑️

Rolling 24 hour average

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