

SensiumVitals[®]

WIRELESS PATIENT MONITORING SYSTEM

Your **Early**
Warning
System



 SENSIUM
HEALTHCARE

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YOUR **EARLY** WARNING SYSTEM

In general care areas of the hospital, vital signs are typically taken during routine observation rounds once every four to eight hours. If a patient deteriorates between these observation rounds the warning signs can go undetected for hours, leading to serious and costly consequences.

SensiumVitals® is a discreet, wearable, wireless system for monitoring vital signs of patients outside of high acuity areas. **SensiumVitals®** accurately and reliably monitors and reports heart rate, respiration rate and axillary temperature providing data every two minutes. By notifying clinicians of changes in patients' vital signs, **SensiumVitals®** brings the nurse to the deteriorating patient.

Early detection of patient deterioration

Working as your early warning system, **SensiumVitals®** provides affordable real-time monitoring for your patients. You can be confident in the knowledge that **SensiumVitals®** will notify you of patient deterioration allowing intervention before the condition worsens, thereby improving patient outcomes, shortening hospital stays and lowering treatment costs.



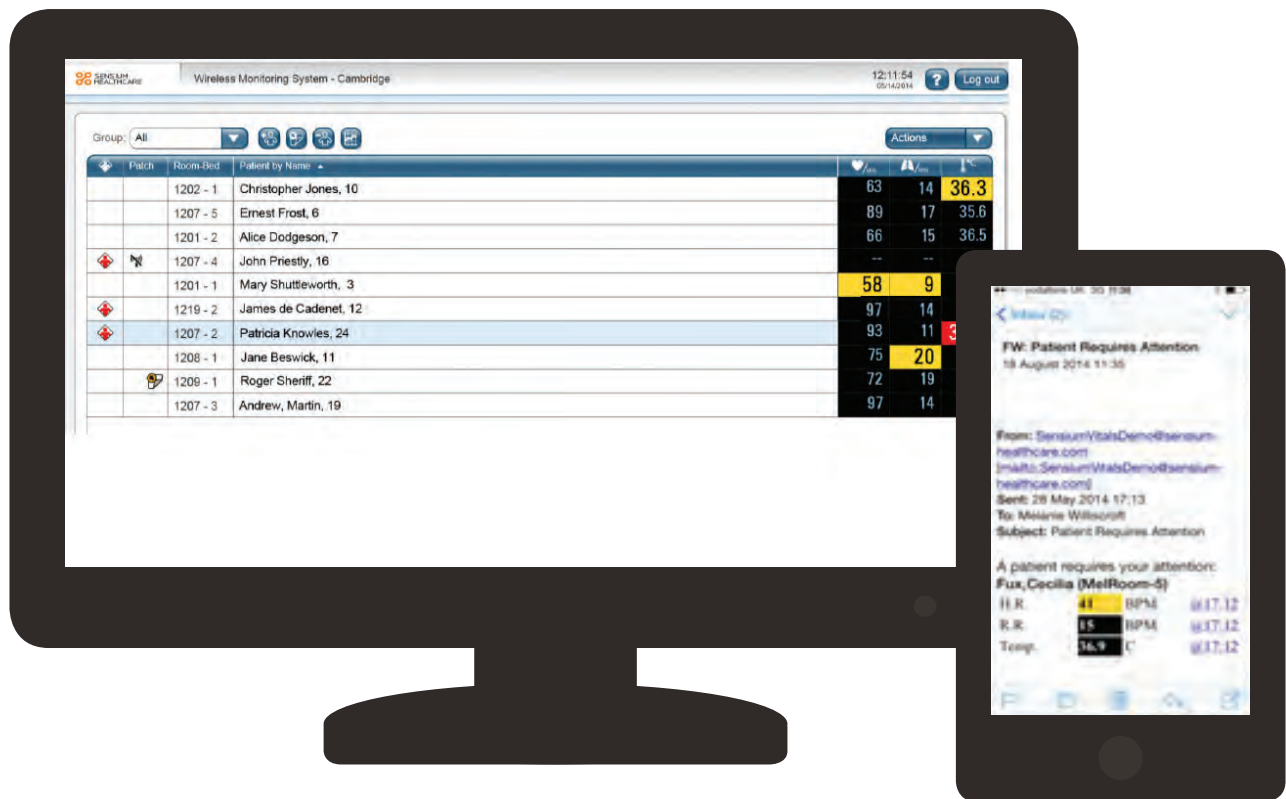


Optimised patient care

We know that nothing can replace the hands on patient care that nursing teams give. **SensiumVitals®** allows nurses to prioritise patient care where it is needed most, to the sickest patients. Every patient can be reassured that, even when the nurse cannot be with them, **SensiumVitals®** is monitoring them and will notify the nurse if something is wrong.

Increased patient mobility

Getting patients up and mobile is key to faster recovery times and fewer complications. The **SensiumVitals®** Patch is lightweight, wireless and comfortable to wear and its unique roaming capabilities mean that patients' vital signs can be transmitted as they move around. Using **SensiumVitals®** means you do not have to choose between mobility and monitoring, you can have both.



Patient data when and where it is needed

SensiumVitals® accurately and reliably monitors and transmits patients' vital signs every 2 minutes. A dashboard summary of vital signs and patient history can be viewed at nursing stations or on other web enabled devices. Crucially, notifications can be configured to work with hospital pager systems or mobile notification devices, giving you data when you need it, where you need it. To save time and ensure accuracy, SensiumVitals® can be easily integrated with the hospital admission, discharge, transfer systems and electronic medical records.





Key Benefits:



For the Clinician

- Real-time, early detection and notification of patient deterioration
- Ability to access information at the nurse station or via other web-enabled devices
- Integrates with existing workflow without customisation



For the Hospital

- Improved patient recovery and reduced length of stay
- Avoiding higher cost treatments through early detection
- Quick and easy to integrate into existing systems



For the Patient

- Non-intrusive, lightweight and comfortable to wear
- Providing reassurance of continuous monitoring
- Non-restrictive, allowing freedom of movement

Patch Features

- Vital Signs every 2 minutes:
 - Heart Rate (+/- 2 bpm)
 - Respiration Rate (+/- 2 brpm)
 - Temperature (axilla) (+/- 0.2°C +/- 0.4°F)
- 5 day battery life
- 3 hours data storage when out of system range
- Uses standard ECG electrodes
- Wireless Patch frequency: 915Mhz (US) / 868Mhz (EU)
- Wireless range: 10m los
- Showerproof (IP54)
- Patch weight: 15g

SensiumVitals® Patch



SensiumVitals® Bridge



Bridge Features

- Connection to hospital network:
 - Wi-Fi 802.11 b/g
 - Ethernet
- Connection to Patch via Ultra-low power wireless
- Power supply: Power over Ethernet
- Wireless range:
 - Wi-Fi: 100m los
- Maximum Patches per Bridge: 16
- Maximum Bridges per network: 600
- Mounting: wall or ceiling
 - Detachable mounting plate
- Size: 137x114x35 mm
- Weight: 230g

MG Service

Monitoring Gateway service
Controls bridges
Tracks patches
No patient names

MG



Application Server

(Provides MAS and MG services)

MAS



MAS Service

Monitoring Application Service
Links patient ID to patch
Notifications sent via email
User interface (Using https)

Server Features

MG Server

- Controls status of bridges
- Supports up to 600 bridges
- Tracks all wireless patches

MAS Server

- Stand alone or linked via HL7 to ADT and EMR
- User interface for hospital clinicians
- Links patient data to SensiumVitals® Patch
- Notifications via email
- Up to 360 active Patches

Database Server



EMR/ADT

Connects to ADT & EMR System



Wireless Monitoring Application Screen



Notifications sent to handheld devices

Regulatory Approvals / Clearances:

- FDA 510(k)
- CE Marking
- HIPAA compliant

Order Codes:

	USA (915 Mhz)	EMEA (868 Mhz)	ANZ (915 Mhz)
Patch	TZ202055	TZ202056	TZ202057
Bridge	TZ202020	TZ202022	TZ202023