

VS100 patch based vital signs monitor

Plug 'n play wireless ECG, heart rate, skin temperature and motion system, suitable for integration into existing and new medical products.



Size: 60mm x 43mm x 16.5mm
Weight: <50g (incl. battery)

vitalsens is part of a growing family of Intelesens devices which are optimised for minimum motion artefact, using revolutionary patch electrodes developed over many years for a range of applications including use in a number of space missions.

The **VS100** device facilitates the measurement and reporting of ECG, heartrate, skin surface temperature and motion. Data is collected periodically and transmitted via Bluetooth®.

Transmitted data can be viewed in real time or logged for further analysis.

The device is suitable for **hospital** monitoring.

FEATURES

- Data acquisition of ECG / Heart rate, Motion and Temperature
- Periodic transmission of Vital Signs (Default: every 15 minutes)
- Separate sensors replaced with one vital signs patch electrode and clip-on device
- Minimum signal path from electrode to electronics produces clearer signals
- Unobtrusive to wear
- Highly miniaturised reusable body-worn wireless sensor / compact and lightweight design
- Non-irritant, easy-to-apply patch electrodes for high quality collection of data
- Rechargeable lithium ion battery

Manufacturer Details

For further information on **Vitalsens** devices, contact

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TECHNICAL INFO

Bluetooth

Class II: Transmits data up to 10m
Standard Bluetooth Serial Port
Profile interface

Electrodes

Innovative easy to apply patch design
24 hour wear
Minimal motion artefact

ECG / Heart rate

Lead II
Sample rate: 360 samples per second
Resolution: 12 bit

Accelerometer

3-axis
Sensitivity: $\pm 2G$ / $\pm 6G$
Sample rate: 40Hz / 160Hz
Resolution: 16 bit

Skin Surface Temperature

Temperature sensor built into electrode
Sample rate: 10 samples per second
Resolution: 12 bit

Regulatory Standards

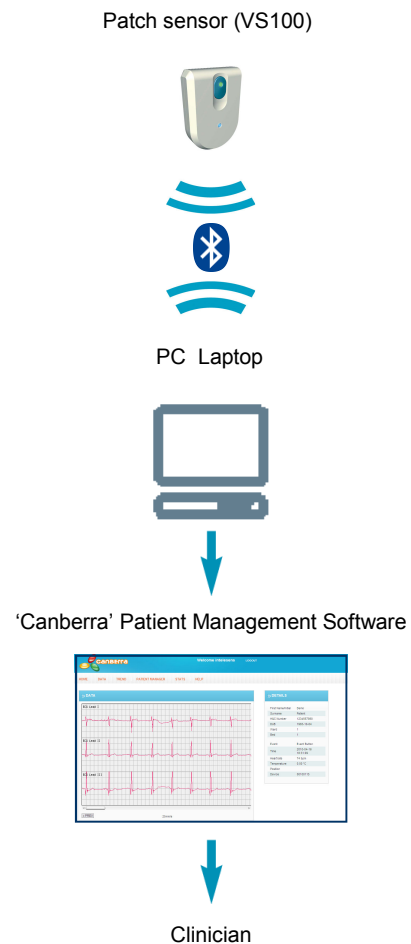
R&TTE and EMC Approved
CE Approval

POTENTIAL USES

The **VS100** is designed to provide wireless ECG, heart rate, skin surface temperature and motion for any existing or new product. It is designed to be rapidly added to or integrated into medical devices or systems.

- Removing the wires from bedside monitors
- Creation of local monitoring (e.g. all the beds in a ward)
- Research into ECG-related areas

Using this tested platform also offers a much quicker and safer route to market for OEMs.



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