Wired sensors can present a variety of problems, leading to data being unusable, unreliable or lost. They get tangled, snagged, broken, pulled at and pulled off. Subjects complain that they're too conspicuous, don't fit in with their lifestyle and aren't conducive to showering or bathing. VitalSense wireless sensors free your subjects and provide a more convenient, reliable and satisfying solution.

Monitor your subjects without wires or probes.

VitalSense wireless sensors free your subjects and provide a more convenient, reliable and satisfying solution.
A Complete System: Sensors, Monitor, Software & Accessories

The VitalSense System includes wireless sensors, a small monitor, software and accessories. VitalSense is designed to be effective for monitoring temperature, in active or inactive subjects, and in indoor or outdoor environments such as:

- Clinical trials
- Military medicine/military training
- Pre- or post-operative outpatient monitoring
- Healthcare telemedicine
- Sports medicine
- Hazardous occupations

VitalSense monitors and stores core and dermal temperature data; monitors and tracks up to 10 sensors and displays data in graph and/or numerical outputs.

VitalSense sensors are wireless transmitters and are pre-calibrated at the factory to simplify activation and eliminate data entry errors. VitalSense and its accessories can provide 24/7 temperature monitoring and data logging without wires or probes.

The System enables:
- 24/7, unobtrusive subject monitoring
- Data storing in nonvolatile memory
- Tracking of core, dermal surface and ambient temperatures
- Data presented in 1- second or 1-minute intervals
- Battery life of 10 days with 10 sensors on line; battery life increases with fewer sensors on line.

The VitalSense System for temperature monitoring may include the following items:
- Ingestible Core Temperature Capsule
- Dermal Temperature Patch
- VitalSense Monitor
- VitalSense PC-application Software
- RS-232 Cable
- Belt Pouch
- Fanny Pack Pouch

VitalSense Temperature Capsule
- Easily ingestible and disposable
- Comparable in size to a large gel capsule
- 32 ˚C to 42 ˚C; ±0.10 ºC guaranteed, ±0.05 ºC typical
- Resolution 0.01º C

How it works:
- The monitor activates the capsule
- Transmissions begin within 15 seconds after activation, and then occur four times a minute.
- The capsule is swallowed (with liquid)
- The capsule easily travels and passes through the GI tract without affecting other bodily functions
- Transit time varies with individual; 12 - 48 hours is typical

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• Easily ingestible and disposable • Comparable in size to a large gel capsule • 32 ˚C to 42 ˚C; ±0.10 ºC guaranteed, ±0.05 ºC typical
• Resolution 0.01º C or as a trend graph
• Functions as the computer interface
• Stores data in nonvolatile memory
• Transfer data to PC

How it works:
- After sensor activation, each sensor transmits its first value to the VitalSense Monitor within 15 seconds and then takes another reading every 15 seconds. Transmission to the monitor occurs four times a minute on a transmission schedule that is synchronized with the monitor.
- The subject wears the monitor which is then able to receive the sensor transmissions. The monitor logs and displays the data.
- Each monitor can track and record up to 10 sensor parameters in normal mode.
- Data are easily downloaded in just one step. The data are downloaded to a PC, and are output as tab separated ASCII, or a Microsoft Excel file.

Dermal Temperature Patch
- Waterproof
- Hypoallergenic adhesive
- Smooth, comfortable and easy-to-use

How it works:
- The dermal patch can be placed at many different locations on the body to record skin temperature
- Multiple dermal patches may be monitored simultaneously
- Accuracy ±0.10º C (32º C to 42º C)
- Temperature sensing range – 20°C to 60°C
- Battery life of 10 days following activation

VitalSense technical specifications available upon request.

VitalSense Monitor
- Activates the sensors
- Tracks and records sensor data
- Displays data in a convenient numerically
- Transfers data to a PC

Medic Mode™

Medic Mode is a special function that enables the VitalSense monitor to detect and record signals from any VitalSense sensor that is within reception range. It displays and records sensor ID, time stamp and temperature values for each sensor transmission that is detected.