



# The freedom of wireless

## VitalSense telemetric monitoring system

When you need to obtain physiological information on subjects, wouldn't you prefer a wireless method? VitalSense is a telemetric physiological monitoring system that enables continuous monitoring of core body temperature, dermal temperature, and heart and respiration rate, all without wires and probes.

Parameter	Value
<b>VitalSense monitor specifications</b>	
Size	120 x 90 x 25 mm
Weight	200 grams
Water resistant	IEC IP 52
Case material	Polycarbonate/ABS copolymer
Temperature display resolution	+/- 0.01°C
Display update rate	15 seconds; on average
Battery life	10 days with 10 sensors on line plus 20 days standby; battery life increases with fewer sensors on line
Number of co-active sensors	1-10 in normal mode; per monitor
Memory	60 sensor-parameter days (2 sensor-parameters for 30 days, 3 sensor parameters for 20 days, 4 sensor parameters for 15 days, etc.)
<b>Capsule specifications</b>	
Size	8.7 mm diameter x 23 mm length
Weight	1.6 grams
Capsule material	Medical grade plastic
Temperature sensing range	25°C to 50°C
Temperature accuracy	32°C to 42°C; +/- 0.10°C guaranteed, +/- 0.05°C typical 25°C to 32°C; +/- 0.25°C and 42°C to 50°C
Sampling rate	Every 15 seconds
Battery life	1 year storage plus 10 days after activation
Sensor calibration	Automatic
Transmission range	Maximum of 1 meter
Transit time	Varies by individual and by diet; 12 to 48 hours is typical
<b>Patch specifications</b>	
Size	57 mm diameter x 6 mm thickness
Weight	7.5 grams
Temperature sensing range	-20°C to 60°C
Temperature accuracy	-20°C to 32°C; +/- 0.25°C 32°C to 42°C; +/- 0.10°C guaranteed, +/- 0.05°C typical 42°C to 60°C; +/- 0.25°C
Sampling rate	Every 15 seconds
Battery life	1 year storage plus 10 days after activation
Sensor calibration	Automatic
Transmission range	Maximum 2 meters
<b>Software specifications</b>	
Software features	Data transfer, ASCII conversion, Excel® file format conversion
Compatibility	Windows® 2000 and Windows XP
Communications interface	RS-232 cable; USB adapter available