



The **GE Datex Ohmeda TuffSat** is a Handheld Pulse Oximeter. it was designed for spot-checking Oxygen Saturation (SpO<sub>2</sub>) and Pulse rate. The TuffSat runs off of four 1.5 v alkaline AA batteries. The Pulse Oximeter is ideal for quick reads in the field and can be used in respiratory care, hospital satellite facilities, doctor's offices, transport, EMS, and rehabilitation facilities.

The TuffSat can continuously calculate SpO<sub>2</sub> levels, unlike other Pulse Oximeters. With the TruTrak data ample from the TuffSat system it can even provide a reading during times of low perfusion, motion, and even electrical interference. The system can easily fit in a pocket or be attached to a belt. with a backlit screen, it is even easy to see the readings in low light. The Ge Datex Ohmeda TuffSat comes in a variety of colors; white, blue, pink, and yellow.

## Features

- Lightweight, ergonomic design.
- Rubber grip offers secure handling.
- Intuitive feature set-minimal training required.
- Rigorously stress tested - exceeds international durability standard.
- Water resistant for ultimate protection in all conditions.
- Relative Perfusion Index helps locate best site for the sensor by providing a quantitative value to compare the strength of the pulse signal at different sites on patient
- Excellent visibility in low light conditions. Back lit, large LCD display provides easy to read numbers.
- Low battery indicator for added convenience



## Specifications

### General Specifications

Height: 6 in (15 cm)  
Width: 1.2 in ( 3 cm)  
Depth: 2.8 in (7cm)  
Weight:9 oz ( 257 g)

### Electrical Power

Battery: Four 1.5V AA batteries

### SpO2

Calibration: Functional  
Range: 0 - 100%  
Accuracy: 70 to 100%  $\pm$  2 digits; Below 70% unspecified  
First Reading (Full Accuracy):  $\leq$  12 seconds  
Resolution: 1%

### Sensor Emitter Wavelength Ranges

Red LED Peak Wavelength Range: 650 - 670 nm  
Infrared LED Peak Wavelength Range: 930 - 950 nm  
Average Power:  $\leq$  1 mW

### Pulse Rate

Range: 40 - 255 bpm  
Accuracy: 40 - 100 ,  $\pm$  2 bpm; 100 to 255,  $\pm$  2%  
First Reading (Full Accuracy):  $\leq$  12 seconds  
Resolution: 1 bpm

### Display

LCD Screen: Displays SpO2, pulse rate, and PIR values; updated every second  
Pleth Bar: Seven-segment column that indicates the pulse rate and signal strength; updated continuously. During monitoring, the lowest segment is always on  
Backlight: Edge-lit yellow light-emitting diode  
Visibility without backlight: visible in normal light (fluorescent, 215 Lux) from 1.5 meters (5 feet) at 30° angle from above and 45° angle from the left, right, and below  
Visibility with backlight: visible in dark room from 0.6 meters (2 feet) at 30° angle