

ABOUT

The Nonin LifeSense LS1-9R is a capnography and pulse oximetry monitor used for continuous, non-invasive monitoring of respiratory and oxygenation parameters. It displays end-tidal CO₂ (ETCO₂), respiratory rate, functional oxygen saturation (SpO₂), and pulse rate on a single touch-screen display. The unit is designed for straightforward operation with visual and audible alarms to alert staff to changes in patient status. Its compact housing allows it to be used in fixed care areas, transport situations, emergency response, and home care settings.

FEATURES

- **Dual-Parameter Monitoring:** Measures sidestream ETCO₂ and SpO₂ at the same one device.
- **Touch-Screen:** Full-color LCD screen allows adjustment of alarm limits, review of measurements, and viewing of up to four hours of trend data.
- **Battery Operation:** Internal rechargeable lithium-ion battery provides approximately eight hours of continuous use per charge.
- **Alarm Functions:** Adjustable high and low limits for all parameters with visual indicators, audible alerts, and a dedicated apnea/no-breath alarm.
- **Patient Compatibility:** Can be used with adult, pediatric, and infant patients
- **Protective Housing:** Lightweight enclosure with IPX1 drip resistance and an included carry case for transport use.
- **Data Recording Option:** Serial port supports the optional TrendSense memory module for storing more than 72 hours of patient data for later transfer to a computer.



SPECIFICATIONS



DIMENSIONS

Height: 2.0 in (5.0 cm)
Width: 7.9 in (20.0 cm)
Depth: 5.3 in (13.5 cm)
Weight: 1.8 lbs (0.8 kg)

POWER

AC Input (Charger): 120 VAC, 60 Hz (USA/Canada).
Input to monitor: 12 VDC, 800mA.
Battery: Internal, rechargeable Lithium-Ion (Li-Ion).
Not user-replaceable.
Battery Life: 8 hours
Charge Time: 17 hours full charge

ENVIRONMENTAL CONDITIONS

Operating Temperature: 23°F to 104°F (-5°C to +40°C)
Operating Humidity: 10% to 95% relative humidity
(non-condensing)
Storage Temperature: -4°F to 122°F (-20°C to +50°C)
Storage Humidity: 10% to 90% relative humidity
(non-condensing)

PULSE OXIMETER SPECIFICATIONS

SpO₂ Range: 0 to 100%
SpO₂ Accuracy: Varies by sensor model. Typically ± 2 digits for adults over 70% saturation.
Pulse Rate Range: 18 to 255 beats per minute (BPM).

Pulse Rate Accuracy: Typically ± 3 digits.

CAPNOGRAPHY SPECIFICATIONS

ETCO₂ Range: 0 – 9.9 kPa or 0 – 99 mmHg.
ETCO₂ Accuracy: ± 0.2 kPa / ± 2 mmHg, +6% of reading.
Respiration Rate (RR) Range: 3 to 80 breaths per minute.
RR Accuracy: 3–50 BPM: ± 2 ; 51–80 BPM: ± 5 .
Sample Flow Rate: 75 ml/min \pm 15 ml/min.

GENERAL

Alarms: Visual and audible. Sound pressure ≤ 65 dBA at 1 meter.
Display: Color TFT LCD touchscreen.
Ingress Protection: IPX1 (Protected against vertically falling water drops).
Safety Classification: Internally powered, Type BF Applied Part, Continuous operation.