9847V

EtCO$_2$ Detector/ Digital Pulse Oximeter

High-Tech Simplicity designed for Veterinary Use

Ideal for surgery or dental procedures on intubated patients, the unique 9847V combines semi-quantitative end-tidal carbon dioxide detection with digital pulse oximetry into one portable handheld monitor for maximum functionality. This vital tool is useful to aid and verify endotracheal tube placement throughout the intubation period. During the procedure, an audible breath tone is present. Additionally, the 9847V provides accurate blood oxygen saturation, pulse rate data, and a visual respiration indicator. Truly versatile, the 9847V allows simultaneous or independent use of the EtCO$_2$ detector and pulse oximeter.

Product Highlights

- ✓ Easy-to-Use - *Bright LED displays and intuitive icons*
- ✓ "First Breath" Active - *No warm-up required*
- ✓ Cost Effective - *No calibration needed and long battery life*
- ✓ Breath Tone - *Audible indication of detected breath*
- ✓ Indication of Pulse Quality - *Tricolor perfusion indicator*
- ✓ Veterinary Specific - *Hardware and software*
- ✓ Durable - *Rugged construction to withstand daily use*
- ✓ Compact Size - *Easily portable; requires little space for storage*

✓*Where People Make the Difference*

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Pure Functionality

The powerful 9847V provides "first breath" activation by eliminating any warm-up time – simply turn on the power and start taking measurements. NONIN's patented semi-quantitative $EtCO_2$ technology, combined with mainstream sampling, eliminates the need for calibration, thus reducing operating expenses.

The sensor includes a fully patented airway adapter tube with a low 6 cc dead space and anti-fog coating for superior performance. An easy-to-interpret and highly visible LED bar graph is standard on all models.

Combined with NONIN's PureLight® sensors, the 9847V delivers the outstanding performance you need to get the job done in a demanding environment.

2000SL – Clip on sensor for tongue applications, paw pads and well-vascularized areas.

2000T – For placement on the underside base of the tail or other well vascularized surfaces.

2000SA – Wrap sensor for placement on the toe (large animal) or base of the tail (small animal).
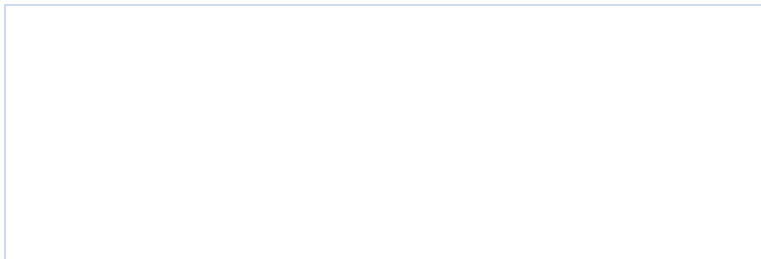
Features & Alarm Functions

9847V
Full-Alarm

Features

	9847V
Breath Tone	✓
Adjustable Volume	✓
Variable Pitch - CO_2	✓
Alarm Functions	
Audible Mute	✓
Audible Disable	✓
Apnea	✓
SpO_2 High/Low	✓
Pulse Rate High/Low	✓

Please contact your authorized distributor for more information.

Specifications

Oximeter

Oxygen Saturation Range (%SpO_2)	0% to 100%
Pulse Rate Range	18 to 450 pulses per minute
CO_2 Range	0 to >75 mmHg
CO_2 Response Time	250ms
Respiration Rate Range	1 to 60 breaths/minute
Breath Detection Threshold	5 mm Hg
Measurement Wavelengths	
Red	660 nanometers
Infrared	910 nanometers
Mid-Infrared	4260 nanometers
Displays	
Numeric Displays	Two 3-digit 7-segment LEDs (light emitting diodes)
Pulse Quality	Tricolor LED segments
CO_2	8 segment LED bar graph
Accuracy	
Blood Oxygen Saturation (%SpO_2 ±1 SD)*	70 - 100% ± 3 digits for the Model 2000SL, 2000SA and 2000T sensors, below 70% is not specified for all sensors
Pulse Rate	±3% ±1 digit
Temperature	
Operating (pulse oximeter)	-4° to +122°F (-20° to +50°C)
Operating (CO_2 detector)	+32° to +122°F (0° to +50°C)
Storage	-22° to +122°F (-30° to +50°C)
Humidity	
Operating	15% to 90% noncondensing
Storage	10% to 95% noncondensing
Power Requirements	6AA alkaline batteries
Battery Life	
Operating	90 hours typical operation (pulse oximeter alone) 20 hours typical operation (CO_2 detector and pulse oximeter)
Dimensions	3 x 6 x 1 in. (8 x 15 x 2 cm)
Weight	11 oz. with batteries (310 g)
Memory	24 hours (SpO_2 ,PR, breath interval)
Warranty	3 years

Classifications per IEC 60601-1/UL60601-1

Type of Protection	Internally powered (on battery power)
Degree of Protection	Type BF-Applied Part
Mode of Operation	Continuous

* S.D. (Standard Deviation) is a statistical measure; up to 32% of the readings may fall outside of these limits.

Quality Systems are registered to ISO 13485:2003 and EC certificates per Annex II, clause 3 of EC Directive No. 93/42/EEC concerning medical devices.

CE c(UL)us 30EM UL2601-1

Specifications are subject to change without notice.

Your Partner of Choice

With over 20 years of experience and dedication to the design and support of noninvasive monitoring devices, NONIN has helped many medical professionals meet clinical and economic objectives. Trusted by clinicians worldwide, countless tests are performed every day on thousands of NONIN pulse oximeters in more than 125 countries. NONIN's dedication to technological leadership, precision manufacturing and uncompromised customer support ensures quality products and service you expect.

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