9840 Series

CO_2 Detector/ Digital Pulse Oximeter

High-Tech Simplicity

The unique 9840 Series 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. Additionally, the 9840 Series provides accurate blood oxygen saturation and pulse rate data for neonatal through adult patients.

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 Beep - *Audible indication of detected breath*

✓ Indication of Pulse Quality - *Tricolor perfusion indicator*

✓ Durable - *Rugged construction to withstand daily use*

✓ Compact Size - *Easily portable; requires little space for storage*

Providing maximum versatility, the 9840 Series allows simultaneous or independent use of the CO_2 detector and pulse oximeter.

✓*Where People Make the Difference*

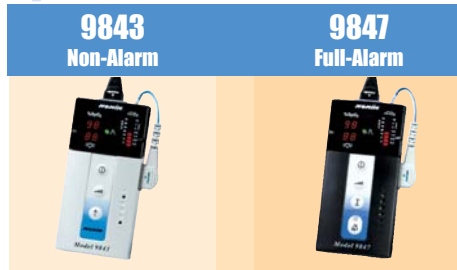# NONIN

Pure Functionality

The powerful 9840 family of products provides "first breath" activation by eliminating any warm-up time – simply turn on the power and start taking measurements. Nonin's patented semi-quantitative CO_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. The single-use airway adapter tube eliminates cross-contamination and is compatible with pediatric through adult endotracheal tubes. An easy-to-interpret and highly visible LED bar graph is standard on all models.

Combined with Nonin's powerful PureSAT® signal processing technology, the 9840 Series delivers the outstanding performance you need to get the job done in a demanding environment.
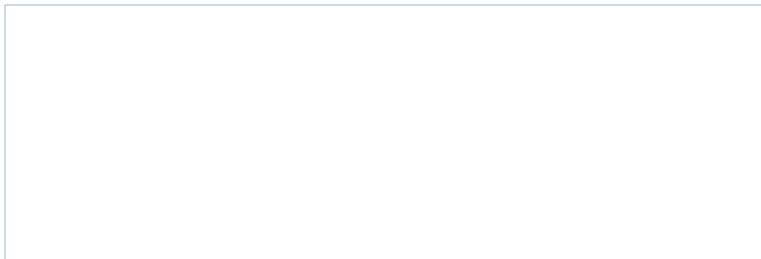
Select Your Options

Features	9843 Non-Alarm	9847 Full-Alarm
Breath Beep	✓	✓
Adjustable Volume	✓	✓
Variable Pitch - CO_2		✓
Alarm Functions		
Audible Mute		✓
Audible Disable		✓
Apnea		✓
SpO_2 High/Low		✓
Pulse Rate High/Low		✓

Accessories:

- ✓ Custom Carrying Case - Maximizes portability
- ✓ Rubber Bumper - Provides additional protection
- ✓ Mounting Bracket - For wall or pole mount applications
- ✓ Sensors - Full range of PureLight® sensors - neonatal through adult

Please contact your authorized distributor for more information.

Specifications

Oximeter

Oxygen Saturation Range (%SpO_2)	0% to 100%
Pulse Rate Range	18 to 300 pulses per minute
CO2 Range	0 to 75 mmHg
Respiration Rate Range	1 to 60 breaths/minute
Breath Detection Threshold	5 mm Hg
Measurement Wavelengths	
Red	660 nanometers
Infrared	910 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% ± 2 digits for adults using Finger Clip sensor
Pulse Rate	±3% ±1 digit
Temperature	
Operating (pulse oximeter)	-4° to +122°F (-20° to +50°C)
Operating (CO2 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 (CO2 detector and pulse oximeter)
Patient Isolation	> 12 MW
Dimensions	3 x 6 x 1 in. (8 x 15 x 2 cm)
Weight	11 oz. with batteries (310 g)
Memory	18 hours (SpO_2 ,PR)
Warranty	3 years

Classifications per IEC 60601-1/UL2601-1

Type of Protection charger)	Class I (when on AC power with 300PS-UNIV battery
	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.

$C \epsilon$ 0123   CLASSIFIED c(UL)us   30EM UL2601-1

Specifications are subject to change without notice.

Your Partner of Choice

With over 18 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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