

Onyx[®] series

All-in-one fingertip pulse oximeters

The Onyx series from Nonin[®] incorporates electronics and sensor into one unit, providing a cost effective solution for spot-checks and short term monitoring of blood oxygen saturation and pulse rate.

Features and benefits

- Easy to use with automatic on/off operation.
- Accommodates wide range of finger sizes.
- No additional sensors required.
- Very durable and comes with a 5 year warranty.
- The Onyx vantage and Onyx II are portable and can be carried anywhere. Each unit weighs less than 57 grams.
- Bright LED display provides quick and accurate assessment of patient readings.
- Free annual calibration check and certification.



Assured quality/standards

All Nonin pulse oximeters are designed and tested to the exacting requirements of ISO 9919. This enables them to be CE marked as a class IIb device to the Medical Device Directive.

Features

Onyx II 9550



Onyx vantage 9590



Dimensions:

Width	3.30 cm	3.30 cm
Height	3.23 cm	3.23 cm
Length	5.59 cm	5.59 cm
Battery life*	21 hours or 2500 spot-checks	36 hours or 6000 spot-checks
Battery life (stored)*	9 months, typical	4 years, typical

To find out more call
0161 930 6010 or visit
www.boclifeline.co.uk

Specifications

Oxygen saturation display range	0 – 100% SpO ₂
Pulse rate display range	18 – 321 Beats Per Minute (BPM)
Oxygen saturation declared accuracy range (A _{rms})**	70 – 100% ± 2digits
Low perfusion oxygen saturation declared accuracy range (A _{rms})**	70 – 100% ± 2digits
Pulse rate declared accuracy range (A _{rms})**	20 – 250 BPM ± 3 digits
Low Perfusion Pulse Rate Declared Accuracy Range (A _{rms})*	40 – 240 BPM ±3 digits

Measurement wavelengths and output power***

Red	660 nanometres @ 0.8 mw maximum average
Infrared	910 nanometres @ 1.2 mw maximum average

Temperature (Onyx II 9550)

Operating	0° to +40°C (+32° to +104°F)
Storage and transportation	-30° to +50°C (-22° to +122°F)

Temperature (Onyx vantage 9590)

Operating	-5 to +40°C (+23 to +104)°F
Storage	-40 to +70°C (40 to + 158)°F

Humidity

Operating	10 – 90% non-condensing
Storage and transportation	10 – 95% non-condensing

Altitude

Operating	up to 12,192 metres (40,000 feet)
Hyperbaric pressure	up to 4 atmospheres

Classifications per IEC 60601-1 / CSA 601.1 / UL60601-1

Degree of protection	Type BF-applied part
Mode of operation	Continuous
Enclosure degree of ingress protection (Onyx II 9550)	IPX2
Enclosure degree of ingress protection (Onyx vantage 9590)	IP32



Onyx vantage is available in four colours

Onyx series

Order code	Description
19222437	Nonin Onyx 9590 Vantage with soft carry case (Black)
19222438	Nonin Onyx 9590 Vantage with soft carry case (Blue)
19222439	Nonin Onyx 9590 Vantage with soft carry case (Purple)
19222440	Nonin Onyx 9590 Vantage with soft carry case (Red)
19221660	Nonin 9550 Onyx II finger pulse oximeter with soft carry case
19221661	Nonin 9550 Onyx II finger pulse oximeter with Justice Mark II

You may also require our LIFELINE oxygen kit

LIFELINE from BOC Healthcare allows healthcare professionals and trained first-aiders to administer oxygen to patients in the event of an emergency such as CPR, asthma attacks and anaphylaxis. The LIFELINE oxygen kit is contained in a purpose-made rucksack style carry case for easy transportation to the casualty and comes with:

- A lightweight oxygen cylinder with an integral regulator
- Next working day refills within mainland UK
- Variety of oxygen masks



- * Based on using two AAA alkaline batteries in continuous operation. Spot checks are calculated at 30 seconds per check
- ** ± 1 A_{rms} represents approximately 68% of measurements
- *** This information is especially useful for clinicians performing photodynamic therapy

Specifications are subject to change without notice.

BOC Healthcare, Great Britain & N. Ireland
Customer Service Centre, Priestley Road,
Worsley, Manchester M28 2UT, United Kingdom
Tel 0161 930 6010, Fax 0845 087 0062
bochealthcare-uk@boc.com, www.bochealthcare.co.uk

BOC Healthcare, Republic of Ireland
PO Box 201, Bluebell, Dublin 12, Republic of Ireland
Tel 01 409 1827, Fax 01 409 1854
healthcareinfo.ie@boc.com, www.BOOnline.ie