

NELCOR

# N-20 Series

*Handheld Pulse Oximeters*



Whether working in an ambulance, hospital or home, clinicians expect a portable pulse oximeter to get moved around and take a few knocks. The Nellcor® N-20 Series has been shock-tested, vibration-tested and subjected to extreme temperatures. So you can be confident each model is rugged enough to stand up to the rigors you'll put it through.

NELLCOR

# N-20 Series

## Handheld Pulse Oximeters

You can choose from three N-20 models for quick assessment of oxygen saturation and pulse rate.



**N-20PE**  
built-in  
printer

**N-20PA**  
continuous  
operation,  
printer, alarms

**N-20E**  
basic  
model

### SPECIFICATIONS

#### Three Easy-to-Use Models

Select the N-20 model with the features you need: the basic N-20E; the N-20PE with built-in printer; or the N-20PA with printer, audible/visible alarms and continuous operation.

- Rugged, durable construction with protective boot.
- Long battery life: 32 to 37 hours.
- Easy-to-see day/night display.
- Built-in printer in models N-20PE and N-20PA to record patient status.
- Three-year warranty.
- Compatible with our full line of Nellcor adhesive and reusable sensors.

#### Description

Handheld pulse oximeter comes complete with four C-size alkaline batteries, a *Durasensor*® Finger Clip Sensor, EC-4 sensor extension cable, protective boot and moisture-resistant jacket. Carrying case is optional.

N-20PE and N-20PA also include integral thermal printer and 12 rolls of printer paper.

#### Operation

N-20E and N-20PE operate in either spot-check or 30-minute extended mode; N-20PA provides continuous monitoring.

All models have a constant-pitch beep tone that sounds with each detected pulse.

#### Display

Oxygen saturation, pulse rate, vertical bar graph pulse amplitude indicator/battery meter, pulse search indicator, low battery indicator.

#### Display Range

SpO<sub>2</sub>: 0% to 100%  
Pulse rate: 20 to 250 bpm

#### N-20PA Alarms

Audible alarms for Low Batt, Pulse Search, High Sat, Low Sat, High Rate, Low Rate.

#### Pre-Set Alarm Limits

	Adult	Neonate
High SpO <sub>2</sub>	100%	95%
Low SpO <sub>2</sub>	85%	80%
High Pulse Rate	170 bpm	190 bpm
Low Pulse Rate	40 bpm	90 bpm

#### Accuracy (% SpO<sub>2</sub> ±1 SD)

Adults: 70% to 100% ±2 digits\*  
0% to 69% Unspecified  
Neonates: 70% to 100% ±3 digits\*\*  
\*with D-25 sensor  
\*\*with N-25 sensor

#### Pulse Rate Accuracy

20 to 250 bpm ± 3 bpm

#### Power Requirements

6 VDC supplied by four C-size alkaline batteries

#### Battery Life

N-20E 37 hours typical  
N-20PE/PA 32 hours typical

#### Dimensions

N-20E 7.5" x 3.0" x 2.0"  
(19.0 x 7.6 x 5.1 cm)  
N-20PE/PA 7.5" x 3.0" x 2.5"  
(19.0 x 7.6 x 6.4 cm)

#### Weight

N-20E 1.3 lb (0.6 kg)  
N-20PE/PA 1.4 lb (0.62 kg)

#### Environmental

Shock: MIL-STD-810E, method 516.4  
Vibration: 5-35 Hz, 0.015" peak to peak  
35-500 Hz, 1 g  
15-minute sweep, each axis  
Resonant frequencies, 20 minutes, each axis  
Temperature:  
Storage -20°C to 55°C  
Operating 0°C to 55°C (instrument)  
0°C to 40°C (printer)

Refer to the appropriate N-20 operator's manual for complete description, instructions, warnings, cautions and specifications. Specifications subject to change without notice. © 1998 Mallinckrodt Inc. All rights reserved. 02726-1198

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