

# Oxitest Plus 7

## Pulse Oximeter Tester

Oxitest Plus 7 features the exclusive Nellcor-Puritan Bennett sensor port, developed in cooperation with Nellcor®. This exclusive feature allows correct selection of the instrument's simulation output to the specific R-Cal value of the attached Nellcor® probe.

The front panel keyboard design makes adjustment of the five preset oxygen saturation levels, six preset heart rates and four preset amplitudes a breeze. In addition, features such as Signal Artifact simulations, preset patient parameters, Alarm Testing and Report printing make Oxitest Plus 7 truly unique.

Oxitest Plus 7



Innovation by design

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## Oxitest Plus 7 – Performance Specifications

**Saturation (SpO<sub>2</sub>):** Range of adjustment is according to pulse oximeter manufacturer and/or model.

Masimo, Mindray, Nellcor, and Nellcor OEM's (e.g., Critikon; Protocol; Philips; etc.):

Variable from 35% to 100% in steps of 1%  
SpO<sub>2</sub> presets at 35, 70, 80, 90, 93, and 97%

Selected EnviteC, Hewlett-Packard, Nihon Kohden, and Philips models:

Variable from 55% to 100% in steps of 1%  
SpO<sub>2</sub> presets at 55, 70, 80, 90, 93, and 97%

All other manufacturers and models:

Variable from 70% to 100% in steps of 1%  
SpO<sub>2</sub> presets at 70, 80, 90, 93, and 97%

**SpO<sub>2</sub> Accuracy:** All supported oximeters except Datex and Invivo oximeters:

55 to 100% SpO<sub>2</sub>: ±1% at specified SpO<sub>2</sub> presets  
35% SpO<sub>2</sub>: ±2%

Nellcor accuracy specified with either DS100A sensor, or with SpO<sub>2</sub> Calibration selected via Nellcor Port

Datex and Invivo oximeters:

±1% at 97, 93% SpO<sub>2</sub>  
±2% at 90, 80, 70% SpO<sub>2</sub>

**Heart Rate:** Variable from 20 to 250 BPM in 1 BPM steps  
Presets: 30, 60, 90, 120, 180, 240 BPM, Accuracy: ± 1 BPM

**Pulse Amplitude:** Variable from zero (no blood flow) to 100% (normal adult pulse) in 1% steps.  
Presets: 100%, 30%, 10%, and 5%, Accuracy: ± 1%

**Signal Artifact:** Four preset simulations:

Movement  
Tapping (Spike artifact)  
Shivering (Tremor artifact)  
Shake Table (2.5Hz Sinewave)

**Auto Presets:** Nine preset patient simulations. Default Auto Presets:

Normal Adult	Hypoxia	Movement Artifact
Tachycardia	Bardycardia	Neonatal
Low Perfusion	No perfusion	Tremor (Shivering Artifact)

Auto Preset parameters may be user-programmed via the RS-232 port.

**Alarm Tests:** Five automated test sequences for determining oximeter alarm response time to Low SpO<sub>2</sub>; Low Heart Rate; High Heart Rate; Low Perfusion; and Motion Artifact conditions.

Also determines time required for oximeter alarm to self-clear after test conditions are returned to normal.

Alarm Test parameters may be user-programmed via the RS-232 port.

**Memory:** Auto Preset and Alarm Test results saved in battery-backed, non-volatile Memory, along with up to 20 PASS/FAIL records from manually-conducted tests. Test results in Memory may be printed as a Test Report via optional external Printer, or may be downloaded via RS-232 port to personal computer or automated tester.

**User Interface:** Display: LCD - 20 character x 2 line  
Keypad - 15 keys: PULSE OX, SPO (%), HEART RATE (preset), HR▲, HR▼, PULSE AMP (preset), PUL▲, PUL▼, PASS, FAIL, AUTO (preset), ALARM TEST, START/STOP (alarm test), ERASE (memory), PRINT

**Nellcor Port:** Allows temporary connection of Nellcor pulse oximeter sensors for selection of sensor-specific SpO calibration curve. Intended for high-accuracy testing of all Nellcor disposable and re-usable sensors.

**Serial / Printer:** Mechanical: 5 Pin MiniDIN / Electrical: Bi-directional RS-232.  
9600 baud, 8-N-1

**Power Supply:** Battery: 7.2V NiCad rechargeable. Capacity: 1.4 Ah, Battery life: 40 hours continuous

**Standard Accessories:** Power Adapter (Region-specific)

**Dimensions:** 5.12 in x 7.75 in x 1.5 in (13 cm x 19.68 cm x 3.8 cm)

**Weight:** 1.93 lbs (875g)

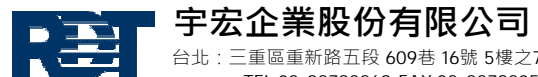
**Environment:** 15°C to 40°C, 10% to 90% RH, Indoor Use Only, Category II

*All specifications subject to change without notice.*



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