

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

Oxitest Plus 7 – Performance Specifications

Saturation (SpO₂): 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%
SpO₂ 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%
SpO₂ presets at 55, 70, 80, 90, 93, and 97%

All other manufacturers and models:

Variable from 70% to 100% in steps of 1%
SpO₂ presets at 70, 80, 90, 93, and 97%

SpO₂ Accuracy: All supported oximeters except Datex and Invivo oximeters:

55 to 100% SpO₂: ±1% at specified SpO₂ presets
35% SpO₂: ±2%

Nellcor accuracy specified with either DS100A sensor, or with SpO₂ Calibration selected via Nellcor Port

Datex and Invivo oximeters:

±1% at 97, 93% SpO₂
±2% at 90, 80, 70% SpO₂

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 SpO₂; 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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