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Технические характеристики на симуляторы пульсоксиметров Prosim SPOT SPO2, Index 2 XLFE компании **FLUKE BIOMEDICAL**



ProSim SPOT Light SpO2 Pulse Oximeter Tester

15-second tester

The SPOT Light pulse oximeter tester is a lightweight and easy-to-use SpO2 functional tester. Preset programs test any combination of saturation, heart rate, perfusion, transmission, artifact noise, and R-curve in 15 seconds or less.

Key Features

- Small, portable and lightweight
- Large, easy to read LCD display
- Rechargeable battery lasts 10 hours minimum
- Signal strength indicator
- SpO₂ Saturation: 70%, 75%, 80 %, 85 %, 90 %, 95 %, 97 %, 98 %, 99 % and 100 %
- Heart rate: 30, 40, 60, 65, 80, 100, 120, 140, 150, 180 and 240 BPM
- Perfusion: 0.2 %, 2 % and 10 %
- Transmission: dark/thick, normal and light/thin
- Artifacts: respiration and ambient light
- R-curves: Nonin, Masimo, Nellcor, Nihon Kohden, Mindray, GE, Philips, BCI



Lightweight, Easy-to-use Pulse Oximeter Tester

Featuring an exclusive ergonomic design, the ProSim SPOT Light is the first comprehensive SpO₂ pulse oximeter functional tester to come in a handheld and easy-to-use device. SPOT Light is lightweight and flexible with three custom presets specially-designed to make it the fastest and easiest-to-use pulse oximeter analysis device on the market today for SpO₂ functional testing. A helpful LCD display and three simple buttons make it effortless to rapidly change parameters and view each signal output sent to the pulse oximeter at a glance. An interchangeable, long-life battery ensures uninterrupted all-day operation without need to connect to a power supply. SPOT Light sets up in seconds to send Peripheral capillary oxygen saturation (SpO₂), heart rate, perfusion, transmission, artifact noise, and eight different manufactures custom R-curves to a pulse oximeter or patient monitor. It is designed to take the abuse of everyday use, including the stresses of transportation, moving from room to room and device to device, and the occasional fall from the workbench. An increasing number of medical devices now have pulse oximetry built in. SPOT Light can be paired with other Fluke Biomedical test tools to make modern the modern pulse oximeter testing task fast and easy. Need to check a defibrillator with pulse oximetry? SPOT Light with the Impulse 7000 Defibrillator Analyzer allow you to test any external defibrillator on the market today. Do you have a fleet of new patient monitors coming that require incoming inspection? Using SPOT Light with ProSim 4 vital signs simulator allows you to easily accomplish this task in hours instead of days.

ProSim SPOT Light Device Includes: ProSim SPOT Light Users Manual, ProSim SPOT Light Battery Pack, ProSim SPOT Light Power Supply Line Cord, ProSim SPOT Light Line Cord (country-specific) CCPS4 SPOT Light, PS4 SPOT Light Carry Case

Model Name	Part Number	Description
SPOT Light	4111101	ProSim SPOT Light Device US Includes all of the above items as well as the Line Cord ProSim SPOT Line Cord (US).
SPOT Light	4142735	ProSim SPOT Light Device SCHUKO Includes all of the above items as well as the Line Cord ProSim SPOT Line Cord (Schuko).

Model Name	Part Number	Description
SPOT Light	4142747	ProSim SPOT Light Device UK Includes all of the above items as well as the Line Cord ProSim SPOT Line Cord (UK).
SPOT Light	4142758	ProSim SPOT Light Device JAPAN Includes all of the above items as well as the Line Cord ProSim SPOT Line Cord (Japan).
SPOT Light	4142764	ProSim SPOT Light Device AUSTRALIA/CHINA Includes all of the above items as well as the Line Cord ProSim SPOT Line Cord (AUS/China).
SPOT Light	4142814	ProSim SPOT Light Device BRAZIL Includes all of the above items as well as the Line Cord ProSim SPOT Line Cord (Brazil).

ProSim SPOT Light SpO₂ Pulse Oximeter Analyzer

Physical Specifications

Display

2 1/4 in x 1 1/2 in LCD display

Size (WxDxH)

4.8 in x 3.8 in x 1.9 in (12.2 cm x 9.7 cm x 4.8 cm)

Weight

8.8 oz.

Electrical Specifications

Battery

Type

Rechargeable Lithium-Ion

Charge Time

Approximately two hours

Operating Duration

Approximately ten hours minimum

AC Adapter

Input Voltage

100 V ac to 240 V ac

Input Frequency

50/60 Hz

Input Current

0.5 A (rms)

Output Voltage

6 V dc

Environmental Specifications

Operating Temperature

32 °F to 95 °F (0 °C to 35 °C)

Storage Temperature

-31 °F to 122 °F (-35 °C to 50 °C)

Operating Humidity

20- 80% RH (non-condensing)

Measurements

SpO₂ Saturation

70%, 75%, 80 %, 85 %, 90 %, 95 %, 97 %, 98 %, 99 % and 100 %

Heart Rate

30, 40, 60, 65, 80, 100, 120, 140, 150, 180 and 240 BPM

Perfusion Rate

0.2 %, 2 % and 10 %

Transmission Level (finger)

Dark/Thick, Normal and Light/Thin

Artifacts

Respiration or ambient light (50 Hz or 60 Hz)

Model Name	Part Number	Description
SPO2 SIMULATOR (OP & ELEC SIM)	3938262	Index® 2XLFE – Brazil 250 V
SPO2 SIMULATOR (OP & ELEC SIM)	2399939	Index® 2XLFE United Kingdom 250 V
SPO2 SIMULATOR (OP & ELEC SIM)	2447465	Index® 2XLFE–Japan 100 V
SPO2 SIMULATOR (OP & ELEC SIM)	3938262	Index® 2XLFE – Brazil 250 V
SPO2 SIMULATOR (OP & ELEC SIM)	3938262	Index® 2XLFE – Brazil 250 V

Index 2 XLFE Series Pulse Oximeter Tester

The most versatile optical simulator for oximeters on the market today.

This lightweight, portable tool includes preloaded manufacturers' R-curves and the ability to define other "makes" for most pulse oximeters.



Key Features

- Portable
- Ten preloaded manufacturers' R-curves
- User-definable "makes" for parameters of most other manufacturers
- R-curves for Masimo, Nonin and Philips Medical Systems (formerly Agilent / H-P) oximeters
- Six downloadable R-curve spaces available
- Simultaneous simulation of motion and arterial-oxygen levels
- Arterial wave-amplitude scale, calibrated in units of perfusion
- Tap/shiver motion simulations to explore the impact of motion
- RS-232 port for computer control
- Physiological finger
- Electrical simulations with probe testing

Index 2 XLFE pulse oximeter tester

O₂

Range:

35 % to 100 %

Resolution:

1 %

Accuracy:

100 % to 75 %: 1 % accuracy of the device under test; 74 % to 50 %: 3 % the accuracy of the device under test; < 50 % unspecified

Repeatability:

Repeatability: 1 standard deviation

Rate

Range:

30 BPM - 250 BPM

Resolution:

1 BPM

Accuracy:

1 % 1 BPM

Pulse Amplitude

Range:

0 to 100 % of nominal pulse amplitude

Resolution:

1 %

Probe test

Continuity/Resistance:

Pulse amplitude is 20 % of maximum pass-through brightness

Test Matrix:

Measures all combinations of possible interconnections in an XX point matrix

Range:

250 Ω to 150 kΩ

Accuracy: 5 % of reading

LED/Detector voltage test

Test Format:

Measures the voltage drop across Red LED, infrared LED, and the photo detector when the internally generated test signal is applied

Test Signal:

Constant current source @ 1 mA

Open Circuit:

2.5 V max

Measurement/Display Range:

0 V to 4 V

Accuracy:

5 % of reading, 0.4 V to 4 V

Dynamic Test

Test Format:

Photodetector/diode response to both the red and infrared light generated by the probe when pulsed by an internal test signal

Test Signal:

Pulsed between the two LEDs; constant current level @ 1 mA

Test Results:

Nominal range of 0 to 2000

Checksum

Sum of all locations in the program chip; for service use only

General Information

Display:

2-line x 24-character super twist LCD

Battery Life:

At least 4 hours of continuous

use

Battery Charger:

Lead acid battery charger only **Input:** 100 V to 250 V, 50-60 Hz, 0.3 A

Output: +12 V dc, 0.5 A

Operating temperature:

15 ° C to 35 ° C (59 ° F to 95 ° F)

Storage temperature:

0 ° C to 50 ° C (32 ° F to 122 ° F)

Humidity

10% to 90% non-condensing

Dimensions (WxDxH):

26.4 cm x 25.4 cm x 10.2 cm (10.4 in x 10 in x 4 in)

Weight:

2.38 kg (5 lb)

Model Name	Part Number	Description
INDEX2LFE-USA120V	2250244	Index® 2XLFE SpO2 Simulator (Optical Finger Simulation plus Electrical Simulations with Probe Testing) USA 120 V Includes: Operator's Manual (171010) Battery Charger (INDEX2-CHRG/US) Electrical simulation cables: Nellcor (N100, N200, and N3000), Ohmeda (5170524, 5170508) Probe test cables: Nellcor (N100, N200, and N3000), Ohmeda (5170525, 5170506)
SPO2 SIMULATOR (OP AND ELEC SIM)	2395309	Index® 2XLFE Schuko 250 V

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