

PEARL 8

Handheld
Pulse Oximeter with
TFT Screen

SpO₂
Pulse



Features

- Reliable measurement of SpO₂ and pulse rate
- High quality and brilliant contrast TFT screen
- Can be used on adults, children and neonates
- Trend and waveform display on TFT screen
- Displays pulse bar graph and perfusion index
- Adjustable alarm limits, visible and audible alarms
- Saturation dependent pulse tone with adjustable volume
- Infrared interface for thermal printer
- Housing made of antimicrobially treated plastic

medlab
medizinische Diagnosegeräte GmbH

PEARL 8

Digital Handheld Pulse Oximeter



The PEARL8 Pulse Oximeter with its new digital signal processing technology works reliably and can be used from neonate to adult.

It features a bright, crisp TFT display which is easily readable. Background colour can be selected to be white or black. The other colours automatically adjust to this setting for an optimized contrast.

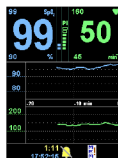
With its integrated alarms, the device can also be used for monitoring a patient.

The screen can be set to three different modes: Large numerical, numerical-waveform and numerical-trend.

The housing is made of a compound of high quality plastic and an additive based on silver-ion technology, which eliminates bacteria growth on the device's surface.

Applications

- Patient monitoring
- Sleep apnea screening
- Spot checks



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Technical Data

Pulse Oximeter:

SpO₂:

Measuring range: 0 ... 100 % SpO₂
Averaging SpO₂: strong, normal or low
(20, 10, 5 seconds)

Display range: 0 ... 99 % SpO₂

Accuracy: No artefacts, normal perfusion
+/- 2 % (70-100 %)
Movement artefacts
+/- 3 % (70-100%)
Low perfusion
+/- 3 % (70-100 %)
(not specified below 70 %)

Pulse rate:

Measuring range: 30 ... 250 min⁻¹

Accuracy: +/- 3 min⁻¹

Alarms: Adjustable alarms for SpO₂ and pulse rate, low battery, probe disconnected

Device:

Dimensions: 122 x 65 x 22 mm

Weight: approx. 140 g

Operating temp.: -20 ... 45 °C

Storage temp.: -25 ... 65 °C

Power supply: two 1.5V AA batteries (IEC LR06)

Battery life: approx. 22 h (at 60 % TFT brightness)

Power consumption: 350 mW with full backlight

Display: 62 mm TFT screen

Brightness: 20 ... 100 %, „Auto“ mode available

Memory: 55 h internally (110h order nr. 02810)

Memory resolution: One data sample pair every 6 sec.

Interface: IR printer interface

Accessories:

00201 Carrying pouch

00110 Thermal printer with IR interface

00139 Fixation for infusion pole

00141 Fixation for anesthesia rail

00310 Probe extension cable (120 cm)

00148 Rubber protection boot with stand

All Medlab PEARL SpO₂ probes
(see separate brochure)

Delivery:

Pulse oximeter PEARL8 55h memory (02800)

Pulse oximeter PEARL8 110h memory (02810)

Two AA batteries

Fingerclip probe P-200, reusable

Operating instructions