

PEARL100L

Digital Desktop Pulse Oximeter

SpO₂
Pulse



Features

- Excellent artefact suppression due to PEARL*-technology
- Compact and portable, attractive design
- Crisp, easily readable TFT colour display
- Reliably measures SpO₂, pulse rate, and pulse strength
- Integrated 100 h trend memory
- Integrated context sensitive help system
- Intuitive, multi-language user interface
- Works on mains and from integrated battery
- Full alarm system with adjustable alarm limits
- Usable from neonates to adults

*Pulse Enhancement Artefact Rejection Logic

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Digital Desktop Pulse Oximeter



The PEARL100L is a modern and competitively priced monitoring system. It is a versatile pulse oximeter that delivers quick and accurate measurements of the arterial oxygen saturation and pulse rate. The PEARL100L features an extremely well readable, crisp colour TFT screen.

The SpO₂ values and pulse rate can also be displayed as trend curves. The integrated trend memory stores more than 100 hours of patient trend data, an integrated alarm system allows for safe patient monitoring. The device has a serial interface that allows the values to be transmitted to and saved on a PC.

Applications

- Monitoring patients from neonates to adults
- Monitoring of sedated patients
- Competitively priced patient monitoring



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Technical Data

Pulse Oximeter:

SpO₂

Measuring range: 0 ... 100 % SpO₂

Display range: 0 ... 99 % SpO₂

Accuracy: No artefacts, normal perfusion
+/- 2 % (70-100 %)

Motion 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

Device:

Mains: 115/230 V, 50/60 Hz

Battery: NiMH, approx. 6 h operation

Power consumption: 1.4 W

Display: TFT LCD with white LED backlight

Curve speed: 12 or 25 mm/sec

Other: Integrated realtime clock

Trend memory, 100 h

Interface: Infrared serial interface

Alarm system: Adjustable alarm limits

Alarms: Audible and visible alarms

Dimensions: 230 mm x 200 mm x 80 mm

Weight: 1.650 g

Housing: ABS

Accessories:

00138 Fixation for infusion pole

00142 Holder for fixation on anesthesia rail

08060 Adapter for analog output

00135 Transmission cable for PC

01960 Adapter for nurse call systems

00801 Carrying bag

00110 Printer

All Medlab PEARL SpO₂ probes
(see probe brochure)

Delivery:

Device PEARL100L (04000)

Mains cable

Operating manual

Patient cable SpO₂ (120 cm)

Fingerclip probe P-200, reusable