

PEARL100 PEARL100L

Digital Desktop Pulse Oximeter with ECG (Option)

SpO₂
Pulse
ECG Curve
(PEARL100)



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 100h 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
- Digital pulse oximeter with one channel ECG (PEARL100)
- Digital pulse oximeter only (PEARL100L)

*Pulse Enhancement Artefact Rejection Logic

medlab
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PEARL100(L)

Digital Desktop Pulse Oximeter
with ECG (Option)



The PEARL100L is a modern, 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 TFT colour LCD screen.

The SpO₂ values and pulse rate can also be displayed as trend curves. The integrated trend memory stores more than 100h 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.

Also available is a version that additionally contains a one channel ECG (PEARL100).

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: adults +/-2% (70-100%)
children +/- 3% (70-100%)
(Not specified below 70%)

Pulse rate:
Measuring range: 30..250 min⁻¹
Accuracy: +/- 1%

ECG (only PEARL100):

Channels: 1 channel, 3 lead cable
Amplification: 0.5, 1, 2 cm/mV

Device:

Mains: 115/230V, 50/60Hz
Battery: NiMH, approx. 6 h operation
Power consumption: 1,4 W
Display: TFT LCD with white 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
08060	Adapter for analog output
00135	Transmission cable for PC
01960	Adapter for nurse call systems
01950	Adapter for POXnet systems
08055	Adapter for USB memory stick
00801	Carrying bag
00110	Printer

All Medlab PEARL SpO₂ probes
(see probe brochure)

Delivery:

Device PEARL100 (04010)
Mains cable
Operating manual
ECG cable
One package of ECG electrodes
Patient cable SpO₂ (150 cm)
Fingerclip probe P-100, reusable

Device PEARL100L (04000)
Mains cable
Operating manual
Patient cable SpO₂ (150 cm)
Fingerclip probe P-100, reusable