

# PEARL100 PEARL100L

## Digital Desktop Pulse Oximeter with ECG (Option)

SpO<sub>2</sub>  
Pulse  
ECG Curve  
(PEARL100)



### Features

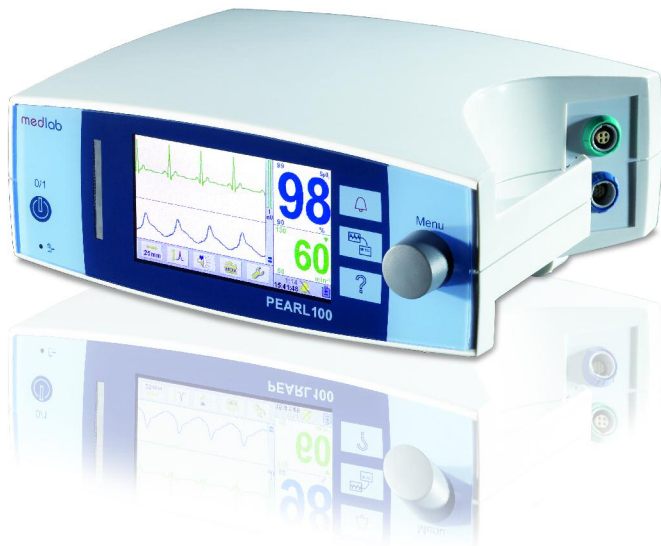
- Excellent artefact suppression due to PEARL\*-technology
- Compact and portable, attractive design
- Crisp, easily readable TFT colour display
- Reliably measures SpO<sub>2</sub>, pulse rate and pulse strength
- Integrated 100h trend memory
- Integrated context sensitive help system
- Intuitive, multi-language 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**  
medizinische Diagnosegeräte GmbH

# 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 SpO<sub>2</sub> 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:

SpO<sub>2</sub>:  
Measuring range: 0..100% SpO<sub>2</sub>  
Display range: 0..99% SpO<sub>2</sub>  
Accuracy: adults +/-2% (70-100%)  
children +/- 3% (70-100%)  
(Not specified below 70%)

Pulse rate:  
Measuring range: 30..250 min<sup>-1</sup>  
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 SpO<sub>2</sub> probes  
(see probe brochure)

### Delivery:

Device PEARL100 (04010)  
Mains cable  
Operating manual  
ECG cable  
One package of ECG electrodes  
Patient cable SpO<sub>2</sub> (150 cm)  
Fingerclip probe P-100, reusable

Device PEARL100L (04000)  
Mains cable  
Operating manual  
Patient cable SpO<sub>2</sub> (150 cm)  
Fingerclip probe P-100, reusable