

# PEARL10

Reliable and Accurate!

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technology



- Medlab PEARL® Technology
- Pulse bar Display
- Adjustable Alarm Limits
- Optical and Acoustical Alarms
- 24h Memory with 3 sec. Resolution
- Infrared Interface for Printer and PC
- Backlit Display
- Saturation Dependant Pulse Tone
- Can be used on Neonates, Children and Adults

More information:

[www.medlab-gmbh.de](http://www.medlab-gmbh.de)



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medizinische Diagnosegeräte GmbH

# PEARL10

## Handheld Digital Pulse Oximeter

The PEARL10 Pulse Oximeter is the first handheld unit that works with Medlab's new „PEARL“ technology. „PEARL“ stands for „Pulse Enhancement Artefact Rejection Logic“, a method for amplifying pulses and suppressing artefacts. The PEARL10 with its new digital signal processing technology also works reliably in difficult situations, for example, on low perfused patients and during heavy patient movement.

The PEARL10 is designed to be used in challenging situations, i.e. for newborns or in intensive care units, but is also ideal for use during transport and in emergency situations. The device displays the oxygen saturation level, the pulse rate, a pulse bar, as well as the current alarm levels for both. The PEARL10 is delivered with a memory of up to 24 hours for up to 9 patients. Together with the optionally available software, this machine is optimally suited for use in apnea diagnosis .



### Technical Specifications:

SpO<sub>2</sub> Range: 0 ... 100 %  
Display Range: 30 ...99 %  
Pulse Range: 30 ... 250 bpm  
Interfaces: Universal, infrared  
Alarm system: Three Level, according to EN475.  
weak battery, defective sensor,  
upper and lower limits.  
Power supply: Two AA alkaline batteries  
or two NiMH rechargables.  
Display: LCD Segment display  
with LED backlighting. Display of  
SpO<sub>2</sub>, pulse rate, alarm limits,  
pulse bar, low battery  
Energy usage: Ca. 100mW without lighting,  
Ca. 600mW with lighting  
Memory: 24 hours, divided among as many  
as 9 patients.  
Resolution: 3 seconds.

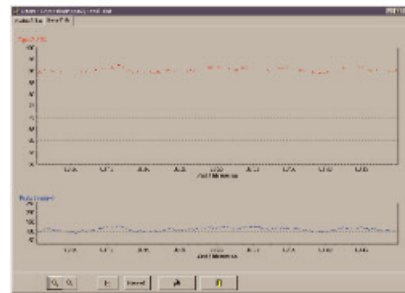
Pulse tone: On/Off, three volume levels.  
Tone pitch: Saturation dependant  
Averaging SpO<sub>2</sub>: 4,8 or 16 seconds  
Averaging pulse: 8 beats  
Dimensions: Ca. 170 x 78 x 25 mm  
Weight: Ca. 200 g

### Supplied Components:

PEARL10  
2 AA batteries  
Finger clip sensor  
Storage case  
User manual



Rubber protection sleeve and clamp for an infusion pole (Options).



Example of the measured data on a PC with the software (Option).



Stand for affixing to flat surfaces (Option).

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Printer for documenting measured data (Option).

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