PEARL100
PEARL100L

Digital Desktop Pulse Oximeter with ECG (Option)

SpO$_2$
Pulse
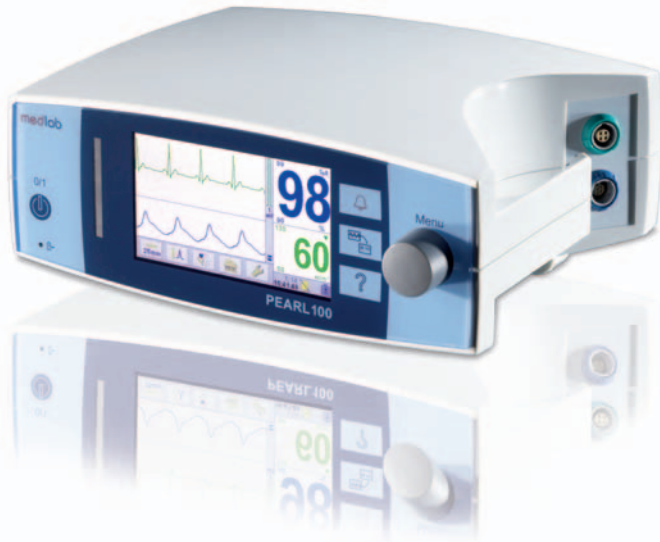ECG Curve
(PEARL100)

Made in Germany

Features

- Excellent artefact suppression due to PEARL*-technology
- Compact and portable, attractive design
- Crisp, easily readable TFT colour display
- Reliably measures SpO$_2$, 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
- 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 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 SpO_2 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.

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_2
Measuring range:	0 ... 100 % SpO_2
Display range:	0 ... 99 % SpO_2
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}

ECG (only PEARL100)
Channels:	1 channel, 3 lead cable
Amplification:	0.5, 1, 2 cm/mV

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
01950	Adapter for POXnet systems
00801	Carrying bag
00110	Printer

All Medlab PEARL SpO_2 probes
(see probe brochure)

Delivery:

Device PEARL100 (04010)
Mains cable
Operating manual
ECG cable
One package of ECG electrodes
Patient cable SpO_2 (120 cm)
Fingerclip probe P-200, reusable

Device PEARL100L (04000)
Mains cable
Operating manual
Patient cable SpO_2 (120 cm)
Fingerclip probe P-200, reusable