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DIGITAL STATIONARY PULSE OXIMETER EP105

Pulse Oximeter EP 105

Simple - intuitive control

Practical - large LCD display, visualisation of value trends, alarm and time function, battery status indicator

Flexible - mains and battery operation, PC communication

Powerful - internal memory for up to 48-hour data recording

Compatible - works with various sensor types



The Pulse Oximeter EPSIMED EP 105 is intended for non-invasive monitoring of functional arterial oxygen saturation SpO₂ and pulse rate for patients of all age groups from new-borns to adults. The extraordinarily good measuring performance is achieved by the use of digital signal processing technology. This technology also allows patient monitoring on the move or when poorly perfused.

The PC software allows visualisation, printing and archiving of measured values.

Range of Usage

- Monitoring less acute conditions
- Ambulatory practice
- New-born intensive care
- Home care

Basic Equipment

- Backlit display and large figures also enable good legibility of measured values in difficult light conditions.
- Plethysmography curve provides information on blood circulation and helps with patient state classification.
- Visualisation of monitored values of oxygen saturation and pulse rate development trends.
- Alarm when limits are exceeded.
- Simple and intuitive menu
- Light emitting diodes provide immediate information on correct device function, sensor state, measuring and battery condition.
- Memory for long-term monitoring - up to 48 hours of recording.

Optional Equipment

- Built-in battery enables operation where there is no mains supply (e.g. during transportation).
- Built-in thermo-printer documents measuring, records time and date.



Accessories

A corresponding sensor type can be found for each situation. Sensors are delivered in various specifications:

- for single use
- for repeated use
- for new-borns, children and for adults.

Technical Data

Oxygen saturation range (SpO ₂)	0% to 100%
Pulse rate range	from 18 to 300 beats per minute
Displayed data	Value of SpO ₂ in % Pulse rate in ppm Plethysmography curve Sensor state Battery condition
Alarm	Adjustable alarm values for SpO ₂ and pulse rate with varying volume Signalling for disconnected or defective sensor
SpO ₂ accuracy	70-100% ±2 digits for adults with finger-clip sensor 70-100% ±3 digits for adults with Flex or Reflex sensors 70-100% ±4 digits for adults with ear-clip sensor 0 - 69% unspecified 70-95% ±3 digits at sensors for children or new-borns
Pulse rate	±3%, ±1 digit
Communication	RS 232, 9600 Bd for communication with PC
Printer	built-in thermo-printer, paper width 57 mm
Power supply	adapter 9 V, 500 mA or rechargeable battery NiMH 9.2V, cca 10 hours operation, charging 4.5 hours
Display	graphical LCD, 240 x 64 resolution with LED backlighting
Weight	570 g without battery, 1340 g with battery
Dimensions	241 mm x 81 mm x 137 mm
Operating temperature	0°C up to 50°C
Storage temperature	- 20°C up to 70°C
Humidity	10% up to 95%, non-condensing
Insulation resistance	> 12 Mohm