

 **PAR**

NIBP UP®

ABPM Combi-System: PHYSIO-PORT DUO

Blood pressure and SpO₂ measurement system for ambulant long-term monitoring



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Technical Specifications

Blood Pressure Measurement	
Measurement Method	oscillometric method with NIBP® UP inflation technology or classic deflation method, selectable
Typical Measurement Time	17 s
Measurement Interval	2 – 90 min, programmable
Capacity	400 measurements or 30h
Measurement Range	
Systole	60 – 260 mmHg
Diastole	40 – 220 mmHg
Pulse Rate	35 – 240 bpm
Accuracy Blood Pressure	+/-3 mmHg
Accuracy Pulse Rate	+/-2 bpm
Cuff	
Connection	metal-snap connection
Size	different sizes
Pressure	max. 300mmHg
Oxygen Saturation	
Measurement Method	SMARTsat® SpO ₂ technology
Sampling Rate	75Hz
Value Update	every 1, 2, 5 s
Sensor	SoftCap® SC sensor
Measurement Range	
SpO ₂	0 – 100 %
Pulse Rate	20 – 300 bpm
Accuracy SpO ₂	(no motion) +/-2 Arms (motion) +/-3 Arms
Accuracy Pulse Rate	(no motion) +/-3 bpm (motion) +/-5 bpm
System	
Storage Time	unlimited
Patient Interface	LCD (measurement results, error codes)
PC-Software	Physioportwin
Controls	foil keypad (Start/Stop, Day/Night/Info)
PC-Connection	digital interface (USB)
Size (LxWxH)	ca.11 cm x 8,0 cm x 2,7 cm
Weight	190 g (with batteries)
Power Supply	2 NiMH non-rechargeable Batteries (typ Mignon AA, 2600mAh)
Maximum Operation Conditions	
Temperature Range	+10°C to +40°C
relative Humidity	15 – 95 % (non-condensing)
Air Pressure	700 – 1060 hPa

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PAR

"A new Generation in patient-friendly blood pressure measurement!"



"Reliable to all international safety standards!"



NIBP UP® Technology

The new and innovative NIBP UP® technology by PAR Medizintechnik is a revolution in patient-friendly blood pressure measurement. The most important improvement of this technology is the blood pressure measurement during inflation of the cuff (inflation method or IMT). This measurement technique allows deflation immediately after reaching the systolic pressure and leads more than a halving of measuring time (17s with NIBP UP® instead of 40s with classic step deflation). Additionally a markedly reduction of the compressive load is reached. These changes are received very positively among clinicians and patients and result in a very high acceptance of patients.

Reliable Safety and Quality

Clinical studies show high precision of measurement results and the feedback of our customers confirm comfort and accuracy of measurements. Our Products have a 2-Controller, 2-pressure transducer and 2-valve design for full compliance with international safety standards.

With this product, customers can trust in the accustomed quality of PAR Medizintechnik as usual, leading to high life expectancy through tested and high-quality components.

System Standards:

DIN EN 60601-1 (2nd & 3rd edition)

DIN EN 60601-1-2

DIN EN 60601-1-6

DIN EN 60601-1-11

Software Standards:

DIN EN 62304

BP Measurements Standards:

DIN EN 1060-3

DIN EN 60601-2-30, 80601-2-30

DIN EN ISO 81060-2

- > CE-certified
- > FDA certification in preparation
- > accuracy and reproducibility demonstrated in extensive clinical tests
- > measurement artifact suppression
- > long live span
- > NIBP UP® inflation mode and classic step deflation mode available

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"Optimal patient comfort and reliable disinfection!"



"Maximum resistance to mechanical stress in daily use!"



SMARTsat® SpO2 technology

The SMARTsat technology platform was developed over the last few years in close cooperation with well-established research institutions and university hospitals. The very latest and innovative signal processing technologies and algorithms enable precise measurements, even under very difficult physiological conditions. According to the ISO Standards, the approved pulse oximetry sensors are calibrated and evaluated against dyshemoglobin-free reference measurements, which were determined from CO oximeter data and do not contain saturation components of the hemoglobin fractions SaCO and SaMet.

SoftCap® SC

Due to its robust design, the SoftCap® sensors are well suited for use in the tough environment of rescue services, emergency care and hospital facilities. Reliable elimination of even the most problematic pathogens using highly effective disinfectants. Bluepoint® Soft Sensors are manufactured from premium materials and their design allows for effective high-level disinfection. This reduces the risk of nosocomial infection associated with surface-borne pathogenic microorganisms.

SpO2 Measurements Standards:

DIN EN ISO 80601-2-61

SpO2 Sensor Standards:

DIN EN ISO 10993-1

DIN EN ISO 10993-5

DIN EN ISO 10993-10

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