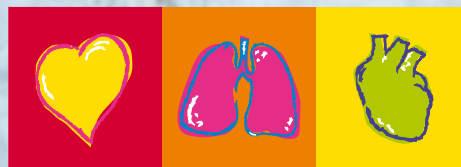




## BP-200 plus

Novel method of automatic auscultation for blood pressure measurement using pulses in the cuff pressure as well as Korotkoff sounds.



# SCHILLER

The Art of Diagnostics

# BP-200 plus

## BP-200 plus – Accuracy and performance in stress test blood pressure measurement

We focus on blood pressure, so you can focus on your patient.

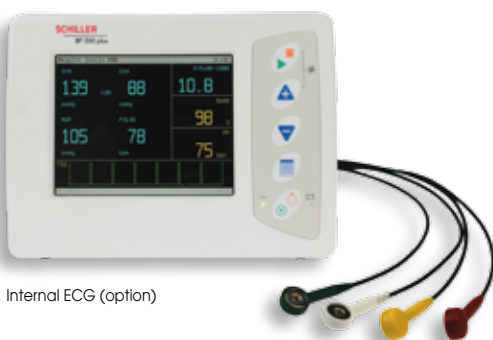
The BP-200 plus blood pressure monitor is designed to automatically measure and display a patient's systolic and diastolic blood pressure and send the measurements to a stress test system. The BP-200 plus also measures and displays heart rate and SpO<sub>2</sub> (option) to create a complete and seamless diagnostic test centre. The BP-200 plus is specifically designed for stress test environments using a treadmill or ergometer and is also ideal in research environments because raw data can be saved on an SD card.



See and hear the Korotkoff sounds using the onscreen display and the included headphones



SpO<sub>2</sub> with MASIMO technology (option)



Internal ECG (option)

The BP-200 plus excels where other BP monitors fail, by using Schiller's proprietary SCHILLER K-Sound Analysis (SKA). SKA was developed as a result of Schiller's pioneering work in 24-hour ambulatory blood pressure monitoring. It was this experience that provided Schiller's research and development team with invaluable insights into the relationship between many of the variables involved in determining the blood pressure of a patient in

motion. These variables include, but are not limited to, the patient's ECG, K-sounds, overall body shape, foot strike characteristics, arm movements, along with treadmill and ergometer noise. With SCHILLER K-Sound Analysis, Korotkoff sounds are distinguished from artefact noise so that blood pressures are measured accurately with greatly reduced false measurements.



# BP-200 plus

## Technical data BP-200 plus:

### System:

**Dimensions:** 222 x 155 x 96 mm (l x w x h)

**Weight:** 1.08 kg (including SpO<sub>2</sub>, ECG amp, excluding batteries)

**Power supply:** External supply +9 VDC output @ 0-1.7 amps

**LCD:** Backlit graphical LCD with multi-language menu

### Interface:

- ECG and RS-232 interface for SCHILLER ECG stress test systems
- USB interface

**Programming:** Menu guidance 5 buttons

**Safety standards:** IEC/EN 60601-1; UL 60601-1, C22.2 No. 601.1-M90; IEC/EN 60601-1-2 (EMC)

**Protection class:** I according to IEC/EN 60601-1 (option: internal power supply)

**Applied part:** BF/CF according to IEC/EN 60601-1

**Conformity:** CE 0123 according to Directive 93/42/ECC (Medical Devices)

**Classification:** IIa according to Directive 93/42/ECC

### Measurement:

#### Methods of measurement:

- Primary: SCHILLER K-Sound Analysis with or without QRS trigger signal for stress test
- Secondary: Oscillometric with smooth linear deflation for resting measurements

#### Measurement range:

- Systolic: 50-270 mmHg
- Diastolic: 20-150 mmHg
- Heart rate: 40-250 BPM

**Measurement intervals:** 2-20 min.

**Memory capacity:** 200 measurements

**QRS trigger:** Signal from external ECG source

**Sampling intervals:**

On command from ECG stress test system, manual or automatic measurement periods from 2 to 20 minute intervals

**Indicator for the user:** On screen message and audio tone for user defined ranges

#### Optional unit version:

Built in SpO<sub>2</sub> module and internal ECG amplifier (to generate the QRS trigger signal to support the blood pressure measurement)

#### Standard accessories:

- Cuff (M)
- User guide
- Velcro fixing pads to secure cuff
- Adhesive pads to fix the microphone
- External power supply
- Head phone
- Communication cable to stress test system
- QRS trigger cable

#### Optional accessories:

- Several cuff sizes
- Battery charger
- Rechargeable batteries
- SpO<sub>2</sub> with cable and ear-sensor
- Patient cable for internal ECG amplifier (IEC coding, Code 1 / AHA coding, Code 2)
- Mini SD card for software update and additional storage of the raw data



RS-232 capability to most ECG systems



USB interface for calibrating the BP-200 plus and SD card for software update or research work



Battery operation (option)

With the BP-200 plus «hands-free» interface, blood pressure readings can be initiated automatically by your stress ECG system at user-defined intervals. After taking a blood pressure measurement, the monitor automatically sends the results to your stress ECG system for immediate display and printout. The BP-200 plus gives you the freedom to concentrate on your patient's performance without the need to manually initiate blood pressure measurements.



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