90207
Ambulatory Blood Pressure Monitor

Summary

Uses oscillometry, the most widely accepted and validated method of automatic NIBP measurement.

Measures systolic, diastolic, mean blood pressure, and heart rate over a period of 24 or 48 hours or longer.

No chest electrodes or microphone — reduces operating cost, improves patient comfort and measurement reliability.

Compact size, light weight, and quiet operation assures patient compliance.

Independently programmable measurement periods and inflation frequencies.

Telecommunications feature allows remote programming and data retrieval.

Real-time clock facilitates diary notations.

Features

Controls, Connectors, and Indicators

On/Off Two-position slide switch

"On" Normal operation; automatically initiates measurements at pre-programmed time intervals

"Off" Standby mode; no measurements, data is retained

Start/Stop Pushbutton; depressed to begin manual blood pressure measurement if none in progress; if depressed during blood pressure measurement, measurement in progress stops

Audio Audible tone indicates start and end of a cycle when tone is selected

General

Measurement Ranges Heart Rate: 40 to 180 bpm; Pressure: 70 to 285 mmHg for systolic, 40 to 200 mmHg for diastolic, and 60 to 240 mmHg for mean arterial values

Pressure Measurement Method Oscillometric

Automatic Measurement Intervals Adjustable from 6 minutes (minimum) to 120 minutes (maximum); up to 12 different periods can be independently programmed, including an interval during which no readings are taken

Measurement Time Typically 35-50 seconds

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Number of Measurements Approximately 240 measurements using standard size adult cuff; stores results of 240 readings in memory

Cuff Pressure Initial inflation to 165 mmHg; thereafter, cuff inflates to approximately 30 mmHg above the previous systolic

Maximum Cuff Pressure Up to 289 mmHg; may be set during initialization

Note Cuff Pressure may be limited to a pressure lower than the unit's absolute maximum.

Autozeroing Pressure automatically zeroed before each reading

Artifact Rejection Discriminates between pressure signals, patient movement, and respiratory artifact

Cuff Inflation/Deflation Inflation and deflation rates under microprocessor control

Data Storage System Nonvolatile CMOS RAM; information retained until reprogrammed; timing of events provided by real-time clock

Digital Display 4-digit, 7-segment, liquid crystal display; systolic, diastolic, and heart rate information alternately displayed; time display and blinking colon provided to indicate when the unit is ON

Patient Safety Measurement cycle limited by hardware to 256 seconds and by software to 180 seconds maximum; pneumatic system open when OFF; air hose detachable at cuff; absolute maximum pressure is limited to 310 mmHg by both hardware and software

Classification

EN 60601-1

Internally powered equipment

Type BF-defibrillator proof applied part

Not suitable for use with flammable gases

Rated for intermittent operation

Electrical Requirements

Power Requirement Four AA-size (R6 or equivalent), alkaline or rechargeable batteries

Physical Dimensions

Height	1.1 in (2.8 cm)
Depth	4.5 in (11.4 cm)
Width	3.4 in (8.6 cm)
Weight	12.2 oz (345.9 g) including batteries

Environmental Requirements

Storage

Temperature	-29° to 149° F (-34° to 65° C)
Humidity	95% (non-condensing)
Altitude	-500 to 10,000 ft (-152 to 3,048 m)

Operating

Temperature	32° to 104° F (0° to 40° C)
Humidity	95% (non-condensing)
Altitude	0 to 10,000 ft (0 to 3,048 m)

Electromagnetic Compatibility

EN 60601-1-2; 2001

Emissions

CISPR11/FCC Part 15 Class B

Immunity

IEC 61000-4-2	ESD; 6 kV contact, 8 kV air
IEC 61000-4-3	RF Fields; 3 V/m 80 MHz to 2.5 GHz
IEC 61000-4-8	Magnetic Fields (50/60 Hz), 3Am

Accessories

For information about supplies, please refer to the *Spacelabs Medical Supplies and Accessories Catalog CD-ROM P/N 084-1201-xx.*

Regulatory Approvals

C SA® US

CSA certified. Meets electrical safety standards CSA C22.2 No. 601.1, UL 60601-1, and IEC 60601-1: 1990.

IEC 60601-2-30: 2000, NIBP.

CE 0123

CE marked in accordance with the Medical Device Directive 93/42/EEC.

EN 60601-1: 1990, electrical safety;
EN1060-3: 1997, NIBP;
EN1060-1: 1995, NIBP;
EN 60601-2-30: 2000, NIBP.

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