

69-15 HEM-907 IntelliSense Digital Blood Pressure Monitor (Project 01-51) (7/03)



The HEM-907 IntelliSense Digital Blood Pressure Monitor is a non-invasive blood pressure monitor that is said to use the latest in oscillometric technology to determine accurate blood pressure and pulse. The manufacturer purports blood pressure accuracy to be within three millimeters Hg, and pulse accuracy measuring within five percent of reading. Designed for clinic or other patient point-of-contact environments, the HEM-907 features a streamlined design compared to many current automatic blood pressure machines. Features of the HEM-907 include one-button operation, automatic pressure setting, automatic inflation/deflation, single and average reading modes, an auscultation mode, noiseless operation, and a large easy-to-read LCD screen. Two unique features include "Hide" and "Average" mode mechanisms. The "Hide" mechanism conceals the blood pressure reading from patient view, which is said to help alleviate "White Coat" syndrome sometimes associated with in-office hypertension screenings. The "Average" mode averages up to three readings, which is said to provide a more clinically relevant measurement. The HEM-907 includes a small, medium, and large cuff with bladder, AC adapter (120V, 50/60Hz), rechargeable nickel-metal hydride battery pack, instruction manual, and one-meter air tube. Optional accessories include cuff without bladders, additional bladders, 1.3-meter air tube, floor stand, wall-hanging kit, and a pole mounting kit. The latter three all include a cuff storage basket. The device comes with a 5-year limited warranty.



Manufacturer:

Omron Healthcare, Inc.
 300 Lakeview Parkway
 Vernon Hills, IL 60061
 (800) 231-4030
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 (800) 637-6763 FAX
www.omronhealthcare.com

Suggested Retail Price:

\$1300.00 Includes:

- 1-HEM-907 Intellisense BP Monitor
- 3-Blood Pressure Cuffs with built-in Bladder
 - HEM 907 CL 19 (13-17" arm circumference)
 - HEM 907 CR 19 (9-13" arm circumference)
 - HEM 907 CS 19 (7-9" arm circumference)
- 1-120V 60Hz AC Adapter (Model # HEM-AC-J)
- 1-4.8V Rechargeable Nickel-Metal Hydride Battery Pack (HEM-907-PBAT)
- 1-1.0m Air Tube (Model # HEM-Tube-100)
- 1-Instruction Manual with Product Warranty and Registration Card

Optional Accessories:

- Cuffs with built-in Bladder
- \$58.00 HEM 907 CL 19 (13-17" arm circumference)
- \$51.00 HEM 907 CR 19 (9-13" arm circumference)
- \$51.00 HEM 907 CS 19 (7-9" arm circumference)

Cuffs without bladder

\$42.00 Large (HEM-907-CUFFL)

\$38.00 Medium (HEM-907-CUFFM)
\$33.50 Small (HEM-907-CUFFS)

Bladders

\$6.50 Large (HEM-907-BLDRL)
\$6.50 Medium (HEM-907-BLDRM)
\$6.00 Small (HEM-907-BLDRS)

\$140.00 Exclusive Floor Stand (Model # HEM-907-Stand)
\$92.00 Wall-Hanging Kit (Model# HEM-907-WKIT)
\$130.00 Pole-Mounting Kit (Model # HEM-907-PKIT)

\$29.00 120V 60 Hz AC Adapter (Model # HEM-AC-J)
\$40.00 4.8V Rechargeable Nickel-Metal Hydride (Ni-MH) Battery Pack (HEM-907-PBAT)

\$4.00 1.0m Air Tube (Model # HEM-Tube-100)
\$4.00 1.3m Air Tube (HEM-TUBE-130)
\$2.00 Y-Connector (23-049)

Government Price:

\$699.00 Includes:

- 1-HEM-907 Intellisense BP Monitor
- 3-Blood Pressure Cuffs with built-in Bladder
 - HEM 907 CL 19 (13-17" arm circumference)
 - HEM 907 CR 19 (9-13" arm circumference)
 - HEM 907 CS 19 (7-9" arm circumference)
- 1-120V 60Hz AC Adapter (Model # HEM-AC-J)
- 1-4.8V Rechargeable Nickel-Metal Hydride Battery Pack (HEM-907-PBAT)
- 1-1.0m Air Tube (Model # HEM-Tube-100)
- 1-Instruction Manual with Product Warranty and Registration Card

Optional Accessories:

Cuffs with built-in Bladder

\$29.00 HEM 907 CL 19 (13-17" arm circumference)
\$25.50 HEM 907 CR 19 (9-13" arm circumference)
\$22.50 HEM 907 CS 19 (7-9" arm circumference)

Cuffs without bladder

\$22.50 Large (HEM-907-CUFFL)
\$19.00 Medium (HEM-907-CUFFM)
\$16.75 Small (HEM-907-CUFFS)

Bladders

\$3.50 Large (HEM-907-BLDRL)
\$3.25 Medium (HEM-907-BLDRM)
\$3.00 Small (HEM-907-BLDRS)

\$70.00 Exclusive Floor Stand (Model # HEM-907-Stand)
\$46.00 Wall-Hanging Kit (Model# HEM-907-WKIT)
\$65.00 Pole-Mounting Kit (Model # HEM-907-PKIT)

\$14.50 120V 60 Hz AC Adapter (Model # HEM-AC-J)
\$20.00 4.8V Rechargeable Nickel-Metal Hydride (Ni-MH) Battery Pack (HEM-907-PBAT)

\$2.00 1.0m Air Tube (Model # HEM-Tube-100)

\$2.00 1.3m Air Tube (HEM-TUBE-130)

\$1.00 Y-Connector (23-049)

ADVANTAGES:

- + Accurately measures blood pressure and pulse.
- + Provided reliable function during clinical evaluation.
- + Patients reported the unit was comfortable during use.
- + Features automatic inflation/deflation system with rapid deflate function option.
- + Automatic pressure-setting function inflates cuff to patient's optimal pressure.
- + Various modes allow for "Single", "Average", "Manual", and "Check" measurements.
- + "Average" mode displays mean blood pressure/pulse for up to three measurements.
- + "Manual" mode allows for stethoscope auscultation.
- + "Hide" function masks measurement readings.
- + Well constructed with a large, easy-to-read liquid-crystal display.
- + One-button operation facilitates ease of use.
- + Air tubes feature quick connect/disconnect for easy cuff change.
- + Easy to operate with minimal training required.
- + Operating manual well written and includes trouble-shooting guide.
- + Generates virtually no noise.
- + Stream-lined design is portable and light weight.
- + Floor stand and battery pack enhance portability of unit.
- + Met all electrical safety standards.
- + Comes with a 5-year limited warranty.

DISADVANTAGES:

- May be technique sensitive; patient must remain still with brachium of the arm maintained at the heart level and operator must be familiar with proper operational techniques.
- Biomedical Equipment Technicians may be unfamiliar with calibration requirements.
- Lacks printout capabilities.
- Not for use during long procedures that require automatic timed-interval measurements and printout capabilities.

SUMMARY AND CONCLUSIONS:

The HEM-907 IntelliSense Digital Blood Pressure Monitor is a digital-readout blood pressure/pulse monitor that is based on oscillometric technology. The unit is of light-weight design and the addition of the optional floor stand along with the rechargeable nickel-metal battery pack enhances its portability. Features of the unit include one-button operation, automatic pressure inflation setting, automatic inflation/deflation, and quiet operation. The HEM-907 also features four different operation modes with readings displayed on a large, easy-to-read LCD screen. The evaluators appreciated the unit's accurate readings, patient comfort, and easy-to-use features. The evaluator rated the HEM-907 as "Excellent" and recommended its purchase. Drawbacks include lack of printer capabilities, inability to provide readings over long procedures, technique sensitivity, and learning curve with calibration procedures. The **HEM-907 IntelliSense** Digital Blood Pressure Monitor is recommended for routine vital sign screenings during procedures such as Type 2 examinations and is rated **Acceptable** for overall use by the federal dental services.