

CAS 740 Monitor

Multi-Parameter Monitor delivering:

- *Ease of Use*
- *Reliability*
- *Accuracy*



MAXNIBP™

Motion Artifact eXtraction

Fast, accurate blood pressure readings for neonates through adults are measured by CAS's proprietary MAXNIBP™ technology.

The CAS 740 monitor offers leading-edge technology in a rugged, portable unit, weighing only 1.4 kg.

Oximetry choices including:

- Masimo SET®
- Nellcor® OxiMax™
- Nonin®

Wireless (infrared) printer communication.

Easily replaceable NiMH battery pack.

CAS 740 monitors mount easily on a cart, IV pole, bedrail or wall.

Ideal tools for spot-check or continuous monitoring.

CAS 740-1 MAXNIBP™

CAS 740-2 MAXNIBP™ and SpO₂

CAS 740-2T MAXNIBP™ and Temperature

CAS 740-3 MAXNIBP™, SpO₂ and Temperature

Designed for use in moving ambulances!

 **CAS MEDICAL SYSTEMS, INC.**
TECHNOLOGY APPLIED TO MEDICINE





CAS 740 Monitor

featuring **MAXNIBP™** technology

NIBP

Technique: Oscillometric (MAXNIBP™ Technology)
 Patient Range: Adult - Neonate
 Measurement Range: **Adult** **Neonate**
 Systolic: 30-255 mmHg 30-135 mmHg
 Diastolic: 15-220 mmHg 15-110 mmHg
 MAP: 20-235 mmHg 20-125 mmHg
 Pulse Rate Range: 30-240 bpm 40-240 bpm
 Accuracy:
 Blood Pressure: ± 5 mmHg
 Standard deviation no greater than 8 mmHg.
 Pulse Rate: ± 2% or ± 2 bpm, whichever is greater.

Oximetry (Options)

Masimo SET®
 %SpO₂ Range: 0-100%
 %SpO₂ Accuracy: 70-100%, ± 2 digits (1 S.D.) Adult
 70-100%, ± 3 digits (1 S.D.) Neonate
 Pulse Rate Range: 25-240 bpm
 Pulse Rate Accuracy: ± 3 bpm

Nellcor® OxiMax™
 %SpO₂ Range: 1-100%
 %SpO₂ Accuracy: 70-100%, ± 2 digits (1 S.D.) Adult
 70-100%, ± 3 digits (1 S.D.) Neonate
 Pulse Rate Range: 20-240 bpm
 Pulse Rate Accuracy: ± 3 digits

Nonin®
 %SpO₂ Range: 0-100%
 %SpO₂ Accuracy: 70-100%, ± 2 digits (1 S.D.) Adult
 70-100%, ± 3 digits (1 S.D.) Neonate
 Pulse Rate Range: 18-240 bpm
 Pulse Rate Accuracy: ± 3% or ± 1 digit, whichever is greater

Temperature (optional)

Welch Allyn SureTemp™
 Temperature Range: 28.9 to 42.2°C (84.0 to 108.0°F)
 Accuracy: ± 0.1°C (± 0.2°F), meets or exceeds ASTM Standards.

Control Panel

Display: LED display of measurement results, instructions, troubleshooting messages, and signal strength bar.
 Parameters Displayed: Systolic Pressure, Diastolic Pressure, Mean Arterial Pressure (MAP), Pulse Rate, %SpO₂, Temperature (in °C or °F)

Patient Alarms Adjustable high and low alarms for Pulse Rate, %SpO₂, Systolic Pressure, Diastolic Pressure and Mean Arterial Pressure.

Operating Modes

History: Review of previous measurements. Up to 8 hours trend at 1 minute intervals.
 NIBP: Manual, STAT or Automatic (at preset intervals).
 %SpO₂: Continuous Monitoring.
 Temperature: Predictive or continuous

Power

Source: External AC power or internal battery.
 AC: 100-240 VAC, 50/60 Hz, 0.5 A, 0.5 A fuse.
 DC (optional): 12 VDC
 Battery: Smart NiMH battery pack (removable).
 Charge Time: 4 hours
 Operating Time: 100 NIBP readings at 5 minute intervals.
 Leakage Current: 100 µA (maximum)

Safety Limits

Automatic Cuff Deflation: If cuff pressure exceeds 290 mmHg (Adult) or 145 mmHg (Neonate).
 If measurement time exceeds 120 seconds (Adult) or 90 seconds (Neonate).
 If safety timer detects microprocessor failure.

Operating Environment

Operating Temp.: 0-50°C (32-122°F) for NIBP & SpO₂
 16-40°C (61-104°F) for Temperature
 Storage Temp.: -20 to 65°C (-4 to 149°F)
 Humidity: 15-95%, non-condensing
 Altitude: Up to 3048 meters (10,000 feet)

Monitors may not meet performance specifications if stored or used outside temperature and humidity ranges.

Physical Dimensions & Weight

Base Unit
 H x W x D: 170 mm x 215 mm x 75 mm
 (6.75 in x 8.5 in x 3 in)
 Weight: 1.4 kg (3 lbs)

Standards

Units comply with the following requirements:
 ANSI/AAMI SP10
 EN 60601-1
 EN 60601-1-2
 EN 60601-2-30
 EN 60601-2-49
 EN 865
 ETL Listed - UL 2601, CAN/CSA C22.2 No. 601.1
 CE marking according to Directive 93/42/EEC

Optional Accessories

Printer with infrared interface
 RS 232 & Nurse Call Interface
 Roll Stand and Basket
 Protective Carrying Case
 Swiveled Hard Mount (for ambulance applications)

MAXNIBP™ is a trade mark of CAS Medical Systems, Inc.
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 Masimo SET® is a registered trade mark of Masimo, Inc.
 Nellcor® OxiMax™ is a registered trade mark of Nellcor Puritan Bennett, Inc.
 NONIN® is a registered trade mark of Nonin Medical, Inc.
 SureTemp™ is a trade mark of Welch Allyn, Inc.

All units covered by U.S. patents 4,796,184 and 5,022,403.
 Other patents pending.



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 ISO 9001/EN46001

Product marking: **CE 0086**

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