

CAS 740 Monitor

Multi-Parameter Monitor delivering:

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



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

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.



CAS 740 Monitor

featuring **MAXNIBP™** technology

NIBP

Technique:	Oscillometric (MAXNIBP™ Technology)	
Patient Range:	Adult - Neonate	
Measurement Range:	<u>Adult</u>	<u>Neonate</u>
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®

%SpO ₂ Range:	0-100%
%SpO ₂ 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™

%SpO ₂ Range:	1-100%
%SpO ₂ 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®

%SpO ₂ Range:	0-100%
%SpO ₂ 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, %SpO ₂ , 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).
%SpO ₂ :	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.
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Operating Environment

Operating Temp.:	0-50°C (32-122°F) for NIBP & SpO ₂ 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.
The CAS logo is a registered trade mark of CAS Medical Systems, Inc.
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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