

740 Vital Signs Monitor



The CASMED® 740 monitor offers leading-edge technology in a rugged, portable, lightweight unit that weighs only 1.4 kg (3 lbs).

Easy to use, reliable, accurate, with multi-parameter capabilities

- Fast, accurate blood pressure readings for neonates through adults . . . reduces the problems of motion in blood pressure measurement
- Monitor oximetry and temperature either continuously or in a "spot-check" mode
- Ideal for medical/surgical patients on pain medications including PCA pumps, for hospital or office-based endoscopy procedures, and for the EMS market

Featured technologies

- CASMED's proprietary MAXNIBP® technology

Oximetry choices include:

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

Four models available:

- CAS 740-1 MAXNIBP
- CAS 740-2 MAXNIBP and SpO₂
- CAS 740-2T MAXNIBP and Temperature
- CAS 740-3 MAXNIBP, SpO₂ and Temperature



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- Created with emergency medical responders in mind
- Wireless (infrared) printer option
- User removable NiMH battery pack, internal power supply and DC power option
- Flexible mounting solutions include cart, IV pole, bedrail, or wall; it can be fixed to a swivel wall mount designed specifically for emergency vehicles or carried in a protective, durable case
- Temperature Module features Fever/Hypothermic Modes

NIBP

Technique: Oscillometric (MAXNIBP® Technology)

Patient Range: Adult – Neonate

Measurement Range

Systolic: 30-255 mmHg

Diastolic: 15-220 mmHg

MAP: 20-235 mmHg

Pulse Rate Range: 30-240 BPM

Accuracy

Blood Pressure: ± 5 mmHg standard deviation

no greater than 8 mmHg

Pulse Rate: $\pm 2\%$ 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

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: $\pm 3\%$ or ± 1 digit, whichever is greater

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

Temperature (Optional)

Covidien FasTemp™

Temperature Range: 30° C to 43° C

(85° F to 110° F)

Accuracy: $\pm 0.1^\circ$ C ($\pm 0.2^\circ$ 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 (°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

NIBP: Manual, STAT or Automatic (at preset intervals)

%SpO₂: Continuous Monitoring

Temperature: Predictive or Direct

Power

Source: External line or internal battery

AC Power: 100-240 VAC, 50-60 Hz, 0.5A;

T1.25A L250V fuse rating

DC Power (EMS Option): 12-30 VDC

Battery: NiMH battery pack (removable)

Charge Time: 4 hours

Operating Time: Minimum 4 hours of continuous operation

Leakage Current: 100 μ A (maximum)

Safety Limits

Automatic Cuff Deflation

If cuff pressure exceeds 290 mmHg (Adults), 145 mmHg (Neonate)

If measurement time exceeds 120 seconds

(Adults), 90 seconds (Neonate)

If safety timer detects microprocessor failure

Operating Environment

Operating Temperature: 0° C to 50° C

(32° F to 122° F)

Storage Temperature: -20° C to 65° C

(-4° F 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: 17.0 cm x 21.5 cm x 7.5 cm

(6.75 in x 8.5 in x 3.0 in)

Weight: 1.4 kgs (3 lbs)

Standards

ANSI/AAMI SP-10

IEC 60601-1, EN 60601-1-2, EN 865, IEC 60601-2-30,

IEC 60601-2-49

ETL Listed – UL 60601, CAN/CSA C22.2 No. 601.1

CE Marking according to Directive 93/42/EEC

Optional Accessories

Infrared printer

RS-232 interface

Swiveled hard mount (for ambulance applications)

Roll stand and basket

Protective carrying case

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ISO 13485
 Certificate Number FM 72259

Product is Marked

Dealer Imprint