



B40 Monitor

Simple. Compact. Reliable.

The B40 monitor from GE Healthcare provides a continuous flow of quality information to enhance clinical decision-making for adult and pediatric patients in various care settings, from physician offices to surgery centers. Its intuitive and simple features help deliver excellent care with ease.

Advanced clinical parameters

The B40 monitor is designed with advanced measurement technologies for accurate and reliable patient monitoring.

- GE EK-Pro arrhythmia analysis
- GE DINAMAP® SuperSTAT non-invasive blood pressure
- GE SpO₂ oxygen saturation monitoring (Nellcor™ OxiMax™ SpO₂ and Masimo SET® SpO₂ optional)
- GE Datex-Ohmeda compact CO₂ sidestream measurement

Ease of use for fast decision-making

The B40 monitor makes it easy to acquire accurate patient data to support timely decision-making.

- 12.1" crystal-clear monitor displays up to six waveforms simultaneously
- Intuitive menus and one-button access to commonly-used functions
- 72-hour trend display with graphical and numerical data to review patient progress
- Modular design of CO₂ function enables shared-use applications
- Capability to work in CARESCAPE™ Network and S/5 Network environments

Performance and reliability

With its streamlined design, the compact B40 monitor fits into crowded spaces. The monitor's rugged design stands up to the every-day wear-and-tear of busy care areas and harsh environments. It will provide the performance and accuracy that you expect of GE equipment-so you can provide the care that your patients expect.



Technical specifications

Display

Display size	12.1 inch
Resolution	800 x 600
Number of traces	Up to 6
Display layout and colors	User-configurable

Controls

Trim Knob® control and hard keys	Standard
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Alarms

Priority	High, Medium, Low and Message
Notification	Audible and visual
Setting	Default and individual
Visual alarm notification	Red, yellow, cyan Audio silence message General alarm message
Audio pause	2 minutes
Adjustment	Central alarm display and adjustment page
Trending	10 minutes graphical trends referenced to set alarm limits

Trends

Graphical	All parameters, selectable time scales from 20 minutes to 72 hours
Numerical	All parameters, every 5 minutes sampling or after NIBP determination
Trend cursor	In both graphical and numerical trends
Minitrends	5 or 30 minute minitrends can be displayed for a continuous historical view

Parameters and modules

ECG

Leads available	3-lead configuration: I, II, III 5-lead configuration: I, II, III, aVR, aVL, aVF and VA
Sweep speed	12.5, 25 or 50mm/s
Gain range	0.2 to 5.0 cm/mV
Heart rate accuracy	30 to 300 bpm, $\pm 5\%$ or ± 5 bpm, whichever is greater

Bandwidth

50 Hz power supply	Monitor: 0.5 to 35 Hz ST: 0.05 to 35 Hz Diagnostic: 0.05 to 150 Hz
60 Hz power supply	Monitor: 0.5 to 40 Hz ST: 0.05 to 40 Hz Diagnostic: 0.05 to 150 Hz
Pacemaker detection	Range 2 to 700 mV Pulse width 0.5 to 2 ms
Arrhythmia analysis	Asystole, Bradycardia, Tachycardia, Ventricular fibrillation, Ventricular tachycardia
ST segment analysis	ST numeric range -9 to +9 mm (-0.9 to +0.9 mV) ST accuracy -8 mm to +8 mm ± 0.2 mm or $\pm 10\%$, whichever is greater ST numeric resolution 0.1 mm (0.01 mV) ST Trends Up to 72 hours
Impedance respiration	Range 4 to 120 resp/min Accuracy $\pm 5\%$ or ± 5 resp/min, whichever is greater Gain range 0.1 to 5 cm/Ohm

Note: Impedance respiration is intended for patients over three years old.

GE SpO₂

Measurement range

Pulse oximetry	1 to 100%
Pulse rate	30 to 250 bpm

Measurement accuracy

Saturation	Adult/Pediatric: Without motion: 70 to 100% ± 2 digits (± 3 digits with ear sensor) With motion: 70 to 100% ± 3 digits Low perfusion: 70 to 100% ± 3 digits 1 to 69%: unspecified
Pulse rate	Without motion: 30–250 bpm ± 2 bpm With motion: 30–250 bpm ± 3 bpm Low perfusion: 30–250 bpm ± 5 bpm

Nellcor OxiMax SpO₂

Measurement range

Pulse oximetry	1 to 100%
Pulse rate	20 to 250 bpm

Measurement accuracy

Saturation	Adult 70 to 100% $\pm 2\%$ Neo 70 to 100% $\pm 3\%$ Low perfusion 70 to 100% $\pm 2\%$
Pulse rate	± 3 bpm

Masimo SET SpO₂

Measurement range

Pulse oximetry	1 to 100%
Pulse rate	25 to 240 bpm

Measurement accuracy

Saturation	Without motion-adult/pediatric 70 to 100% ±2%
	Without motion-neonate 70 to 100% ±3%
	With motion-adult/pediatric/ neonate 70 to 100% ±3%
	Low perfusion 70 to 100% ±2% (0~69% unspecified)
Pulse rate	Without motion ±3 bpm
	With motion normal physiologic range ±5 bpm

NIBP

Measurement technique	Oscillometric with step deflation
Modes	Manual, automatic and stat

NIBP Measurement ranges

Systolic	Adult/Pediatric: 30 to 290 mmHg
	Neonate: 30 to 140 mmHg
MAP	Adult/Pediatric: 20 to 260 mmHg
	Neonate: 20 to 125 mmHg
Diastolic	Adult/Pediatric: 10 to 220 mmHg
	Neonate: 10 to 110 mmHg
Accuracy	Meets AAMI SP10
Default initial inflation pressure	Adult/Pediatric: 135 ±15 mmHg
	Neonate: 100 ±15 mmHg
Maximum determination time	Adult/Pediatric 2 minutes
	Neonate: 85 s
Over pressure monitor	Adult/Pediatric: 300 to 330 mmHg
	Neonate: 150 to 165 mmHg

Invasive blood pressure

Measurement range	-40 to 320 mmHg (-5.3 to 42.7 kPa)
Measurement accuracy	±5% or ±2 mmHg, whichever is greater
Frequency response	4 to 22 Hz
Transducer sensitivity	5 µV/V/mmHg

Temperature

Numerical display	T1, T2, T2-T1
Scale	° Fahrenheit (F) ° Celsius (C)
Measurement range	50 to 113°F (10 to 45°C)
Measurement accuracy	±0.1°C without probe
Display resolution	0.1°C at 25 to 45°C with reusable probes
Probe	GE approved probes or defibrillator-proof YSI 400 series probes

Airway Gas (CO₂)

Measurement range	0 to 20 vol%
Accuracy	0 to 15 vol%: ± (0.2 vol% +2% of reading)
	15 to 20 vol%: ± (0.7 vol% +2% of reading)
Resolution	0.1%
Rise time	< 300 ms with nominal flow
Maximum sampling line length	19.7 ft. (6 m)
Warm-up time	1 minute for operation 30 minutes for full specification

Respiration Rate

Breath detection	1% variation in CO ₂ level
Measurement range	4 to 80 bpm
Accuracy	±1 bpm in the range 4 to 20 bpm ±5% in the range 20 to 80 bpm
Resolution	1 bpm

Note: CO₂ measurement is intended for use with patients weighing over 5 kg (11 lb) only.

Thermal Recorder

Operating principle	Thermal array
Waveforms	Selectable 1, 2, or 3 waveforms
Numerics	HR, SpO ₂ , NIBP, IBP1, IBP2, ETCO ₂ , T1, T2, Resp
Tabular trend printout	HR, NIBP, IBP1, IBP2, T1, T2, Et/FiCO ₂ , RR
Graphical trend printout	HR, ST, IBP1, IBP2, NIBP, SpO ₂ , Pleth, CO ₂ , Resp, T1+T2
Resolution	
Vertical	200 dots/inch (8 dots/mm)
Horizontal	600 dots/inch (24 dots/mm)
Paper width	50 mm, printing width 48 mm
Paper speed	1, 6.25, 12.5, 25 mm/s

I/O connectors

RS-232 computer serial output, Defibrillation synch, Nurse call

Networking

Work in CARESCAPE Network and S/5 Network environments

Printing

Network laser printer supported in S/5 network

Mounting

GCX compatible

Integrated transport handle

Electrical specifications

AC input	100 to 240V ±10%, 50/60 Hz, 150VA
Protection	Class I
Battery	Exchangeable lithium-ion, 2 pcs max
Charging time	2 hours per battery pack
Run time	Up to 4.5 hours

Physical specifications

Dimensions (H x W x D)

Without extension rack 12.3 x 12.3 x 6.2 in (±0.2 in)
(312 x 312 x 158 mm (±5 mm))

With extension rack 12.3 x 13.9 x 7.0 in (±0.2 in)
(312 x 352 x 178 mm (±5 mm))

Weight 13.2 lbs (6 kg)

Ingress protection IP21

Warranty

One year

Certifications

IEC 60601-1 passed

CE marking according to Directive 93/42/ EEC

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