

Product Overview

The GE Corometrics 250cx Series fetal monitors are a full antepartum/intrapartum fetal monitor that includes innovative features that help deliver high-quality birthing experiences with enhances patient care. The 250cx series monitors uterine and fetal activity including fetal heart rate and has enhanced maternal monitoring features including temperature, oxygen saturation, ECG, and non-invasive blood pressure.



GE Corometrics 250cx Series Fetal Monitors

Features

- Comprehensive perinatal monitoring needed during labor and delivery.
- Monitors the following parameters: DINAMAP SuperSTAT NIBP, TEMP, Masimo® SET or Nellcor® SpO2, 3-Lead Maternal ECG.
- Smart BP delays blood pressure measurement during contractions, reducing distractions and providing more meaningful diagnostic data.
- ChartLight with backlit keys and dimmable display help make the monitor unobtrusive, even in low-light environments.
- Watertight transducers use 9-crystal ultrasound technology for a wider focal region and more uniform coverage.

Features Continued on Next Page

Note: The technical data given in this publication is for general information and is subject to change without notice. Actual configuration on the unit may vary. Contact our sales representatives for a complete list of details.



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Features Continued

- Intuitive hot keys allow most tasks to be completed easily at the touch of a button.
- **Optional** — CPN compatibility to streamline the capture and archival of patient data.
- **Optional** — Telemetry interface for continuous monitoring without changing transducers during ambulation or laboring in water.

Specifications

Dimensions & Weight

Height: 6.7 in (17 cm)

Width: 16.7 in (42.4 cm)

Depth: 17.5 in (44.4 cm)

Weight: 22 lbs (10.9 kg)

Power

Nominal Line Voltage: 100 VAC | 120 VAC | 220 VAC | 230 VAC | 240 VAC

Line Frequency: 50/60 Hz

Power Consumption: 100 W | 0.4 A

Chassis Leakage: < 300 μ A

Environmental

Operating Temperature: 50°F to 104°F
(10°C to 40°C)

Operating Humidity: 10% to 95%, non-condensing

Operating Pressure: 700-1060 mbar
(525-795 mmHg)

Storage Temperature: 14°F to 131°F (-10°C to 55°C)

Storage Humidity: 45% to 65%, non-condensing

Storage Pressure: 700-1060 mbar (575-795 mmHg)

FECG Mode

Technique: Peak detecting, beat-to-beat
cardiotachometer

Heart Rate Counting Range: 30–240 bpm

FECG Mode Continued

Heart Rate Resolution: \pm 1 bpm

Artifact Elimination: Selectable, \pm 25 bpm
artifact rejection

Countable Input Signal Range: 15 μ V to 2 mV
peak-to-peak

Offset Voltage Tolerance (Differential): \pm 300
mVdc maximum

Maximum Common Mode Voltage: 20 V
peak-to-peak

Preamplifier Bandwidth: 1–90 Hz

Common Mode Rejection:

Balanced: > 120 dB at mains frequency, with
patient cable

Unbalanced 5k Ω RA or LA: > 110 dB at
mains frequency

Input Equivalent Noise: < 10 μ V peak-to-peak

Input Impedance:

Differential: > 10 M Ω

Common Mode: > 20 M Ω

Mains Frequency Rejection: > 40 dB

Leakage Current: < 60 μ A at 254 VAC,
electrically isolated

Isolation, Mains-to-Patient: > 4 kVAC

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Specifications

Ultrasound Mode

Technique: Pulsed Doppler with autocorrelation processing

Transducer Type: 9-crystal

Pulse Repetition Frequency:

Single Ultrasound Mode: 4 kHz

Dual Ultrasound Mode: 2 kHz

Pulse Duration: 92 μ s

Transmitter Frequency: 1.151 MHz

Spatial-Peak Temporal Average Intensity: $I_{spta} < 10$ mW/cm²

Spatial-Average Temporal Average Intensity: $sata < 5$ mW/cm²

Focal 20 dB Beam Area: 16.6 cm², at a range = 7 cm

Peak Instantaneous Intensity: 1.8 mW/cm²

Peak-Negative Acoustic Pressure: $p < 10.0$ kPa

Heart Rate Counting Range: 50–210 bpm

Leakage Current: < 10 μ A at 120–240 VAC, isolated by transducer