

The **GE Corometrics 259** is a fully antepartum/intrapartum fetal monitoring system. The Corometrics 259 includes innovative features that can help deliver a high-quality birthing experience with advanced patient care. The Corometrics 250 series can monitor fetal heart rate and activity, along with monitoring parameters for the mother. These monitoring features include heart rate, temperature, oxygen saturation, ECG, and blood pressure. The Fetal Monitor can give you a comprehensive, detailed reading for labor and delivery.

The Monitor is equipt with an LCD screen that can simultaneously display fetal and maternal parameters plus the maternal waveforms. The Monitoring system additionally offers a recorder that prints continuous trends and

Features

- · Conpact, Portable device
- · 3, 8, or 12-lead Multi-Channel
- High-resolution color LCD display
- · Stores up to 20 ECGs
- · Choice of Wireless of Traditional ECG Acquisition
- High-fidelity acquisition sampling rate of 40,000 samples per second per channel
- Mortara Veritas algorithm for ECG interpretation



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Specifications

Dimensions Height: 6.7" (17 cm)

Width: 16.7" (42.4 cm)
Depth: 17.5" (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: 50/60Hz

Power Consumption: 100 W, 100 W, 0.4 A, 0.4 A

Chassis Leakage: <300 μA

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

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

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

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

Relative Humidity:0% to 95%, non-condensing

Atmospheric Pressure:700–1060 mbar (525–795 mmHg)

Recorder Speed: 1, 2, and 3 cm/min

Speed Accuracy: ± 1%

FECG Technique: Peak detecting, beat-to-beat cardiotachometer

Heart Rate Counting Rage: 30-240 bpm

Heart Rate Resolution: ± 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 a patient cable

Unbalanced $5k\Omega$ RA or LA: > 110 dB at mains frequency Input Equivalent

Noise: < 10 μV peak-to-peak

Input Impedance: Differential: > 10 M Ω Common Mode: > 20 M Ω

Mains Frequency Rejection: > 40 dB

Leakage Current: < 10 µA at 100-240 VAC, electrically isolated

Isolation, Mains-to-Patient: > 4 kVAC



Specifications Continued

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 µs

Transmitter Frequency: 1.151 MHz

Spatial-Peak Temporal Average Intensity: Ispta < 10 mW/cm2 Spatial-Average Temporal Average Intensity: Isata < 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: < 100 µA at 100-240 VAC, isolated by the transducer

Uterine Activity Mode Toco transducer

Range (typical): 0-100 mmHg (0-13.3 kPa)

Resolution: 1 mmHg (0.13 kPa) Bandwidth: dc to 0.5 Hz

Excitation Voltage:

Zero Set Temperature Drift: < 0.1 mmHg/°C (0.013 kPa/°C), excluding

transducer

Leakage Current: < 100 μA at 100-240 VAC, electrically isolated

MECG Technique: Peak detecting, beat-to-beat cardiotachometer

Maternal ECG Electrode Type: Medtronic 1700-003 or equivalent

Leads Available: I, II, and III

Heart Rate Counting Range: 30-240 bpm

Heart Rate Resolution: ± 1 bpm

Heart Rate Update Rate: > 1 update per second

Countable Input Signal Range: 0.5 mV to 5 mV peak-to-peak

Baseline Drift: < 0.5 mV RTI

Tall T-wave Rejection: 0.8 x QRS amplitude

Heart Rate Meter Response Time:

80–120 bpm Step Increase: < 2 seconds 80–40 bpm Step Decrease: < 3 seconds

Alarm Time for Tachycardia 80-200 bpm: < 10 seconds (high alarm limit at

100 bpm)

Offset Voltage Tolerance (Differential): ± 300 mVdc maximum Maximum Common Mode Voltage: 20 V peak-to-peak

Preamplifier Bandwidth: 0.6 to 40 Hz



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