COROMETRICS® 116 INTRAPARTUM FETAL MONITOR

- Toco, Ultrasound Transducer and ECG
- Provides simultaneous, noninvasive monitoring of twins as well as internal/external monitoring and maternal ECG
- Data storage and transmission

**Specifications**

**Direct ECG**
- Technique: peak detecting beat-to-beat cardiotachometer. Heart rate counting range: 30-240 BPM. Heart rate resolution: ±1 BPM. Artifact elimination: switch selectable ± 25 BPM artifact rejection. Input signal range differential: 15 µV to 2 mV peak-to-peak (fetal), 100 µV to 2 mV peak-to-peak (maternal). Common mode: 20 VDC (max.). Pre-amplifier bandwidth: 1.0 Hz to 100 Hz. Common mode rejection: >120 dB balance. With patient cable: ±10 dB 5k RA or LA unbalance. Input equivalent noise: <10 µV peak-to-peak. Input impedance: differential mode > 10 MΩ, common mode > 20 MΩ. Main frequency rejection: >40 dB. Leakage current: <10 µA at 120 VAC. Isolation mains to patient connection: >2 kV. Leg plate tester: simulated r-wave at 120 ± 1 BPM.

**Ultrasound**
- Technique: pulsed doppler with autocorrelation processing. Pulse repetition frequency: 4kHz in single ultrasound mode, 2kHz in dual ultrasound mode. Pulse duration: 92µs. Center frequency: 1.151 MHz. Intensity: <10 mW/cm². Heart rate counting range: 50-210 BPM. Leakage current: <10 µA at 120 VAC.

**Pressure**
- Range: 0-100 mmHg. Tocotransducer: 0-100 relative units (0-120 grams). Excitation voltage: +4.0 VDC. Resolution: 1 mmHg. Bandwidth: tocotransducer DC to 0.5 Hz, strain gauge DC to 3 Hz. Zero temperature drift: < 0.1 mmHg/°C (electronics only). Leakage current: <10 µA at 120 VAC (transducer isolated).

**Recorder**
- Uterine activity: chart width: 4 cm, scaling: 25 mmHg/cm (3.33 kPa/cm), range: 0-100 mmHg, resolution: 1 mmHg. Chart drive: speeds: 1, 2 and 3 cm/min; accuracy: ±1%. Heart rate scale: domestic – chart width 7 cm, scaling 30 BPM/cm, range 30-240 BPM, resolution 1 BPM; international: chart width 8 cm, scaling 20 BPM/cm, range 50-210 BPM, resolution 1 BPM.

**Power Requirements and Physical Characteristics**
- Voltage: 100/120/220/240 VAC selectable. Frequency: 50/60 Hz. Power consumption: 100 Watts (max.). Height: 7 in (17.8 cm). Width: 16.5 in (41.9 cm). Depth: 17 in (43.2 cm). Weight: approximately 34 lbs (15.5 kg)

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