HEWLETT PACKARD® M1350A FETAL MONITOR

Capabilities
- Monitors FHR using both Direct ECG and ultrasound
- Monitors maternal heart rate using ECG
- Monitors twins using either DECG and ultrasound or dual ultrasound
- Monitors uterine activity externally or internally
- Detects fetal movements using ultrasound

Specifications

| Dimensions | Height: 156 mm (6.1”); Width: 425 mm (16.9”); Depth: 428 mm (15.3”); Weight: 12.9 kg (28.4 lbs) without transducers. |
| Power Requirements | Operating voltage: 100/120 and 220/240 V (+10%); Frequency: 50 to 60 Hz; Consumption: 60 VA max. |
| Display Section | Numerical Display – two heart rate displays (orange) and one uterine activity display (green). Types: FHR range – ultrasound method: 50 to 240 bpm, DECG method: 30 to 240 bpm, MHR method: 30 to 240 bpm (no display). Uterine activity range – external labor: 0 + 127 relevant units, intruterine pressure: -99 + 127 mmHg/-9.9 + 16.9 kPa |
| Instrument Display | Mode Display: Modes, US, DECG, MECEG, FMP (Fetal Movement Profile) and Toco will be displayed according to the transducers plugged into the sockets. Two digital quality indicators (cardio channels only): green, yellow and red show signal quality. Acceptance lamps flash with valid heart rate measurement. Logic (DECG only): Lamp on indicates that FHR logic is disabled. |
| Input Section | Inputs: Cardio 1 Combi and Cardio 2 sockets accept Direct ECG, MECEG or ultrasound transducers. cardio 1 Combi socket also accepts US/MECG Combi Transducer. Toco socket accepts external Toco Transducers and Pressure Transducers. DECG: The logic key allows you to monitor FHR when fetal arrhythmia is present. When logic is switched ON, instantaneous (beat-to-beat) heart rate changes greater than ±28 bpm are rejected. When logic is switched OFF, instantaneous heart rate changes greater than ±28 bpm are recorded. But note that artifact (caused, for example, by maternal movement) is also recorded. Ultrasound Mode: System: pulsed Doppler oscillator. Frequency: 998.4 kHz. Repetition rate: 3.2 kHz. Ultrasound intensity: 1.5 mW/cm² average for each of the seven active surfaces. External Labor: Signal range: 0 to 100 units. Offset compensation: ±200 units. Intruterine Pressure: Signal range: -99 to +127 mmHg. Patient leakage current: 10µA. Displayed pressure unit mmHg (optional kPa). Sensitivity: automatically selectable between 40µV/mmHg/V (1290A) and 5µV/mmHg/V (1290C).
Recorder Section

Recorder mechanism: 5 channel, high resolution (8 dots per mm, 200 dots per inch) thermal array recorder, paper and detection. Paper speeds 1, 2 and 3 cm/min. Annotation: time of day and date (automatic annotation every 10 minutes), paper sensing mode (annotated with each alteration of parameter). Paper advance speed: 24 cm/min. Automatic stop at perforation line.

FHR (cardio) Scales

Scale A: vertical scale size: 7 cm, vertical scale sensitivity: 30 bpm/cm, range: 30 to 240 bpm. Scale B: vertical scale size: 8 cm, vertical scale sensitivity: 20 bpm/cm, range: 50 to 210 bpm. Uterine activity (Toco) scale: vertical scale size: 4 cm, vertical scale sensitivity: 25 units/cm, range: 0 to 100 units. Z-fold paper with numbered pages: recording times per pack: 8 h20min at 3cm/min, 12h 30min at 2cm/min, and 25h at 1cm/min. Fetal movement profile recording: 2 mm high bars on upper Toco scale.

Self-Test Facilities

Test button: with no front end connections to the instrument a through instrument test is performed including a display and recorder test. With the appropriate transducer connected the receptive mode can be tested.

Interface Capabilities

Programmable input allows external parameter to be recorded on either the Cardio or Toco channels.

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