

DRE Tempo Series

Fetal Monitor

Equipment for the way *you* operate

Compact fetal monitors with high-sensitivity transducers



DRE Tempo



DRE Tempo II

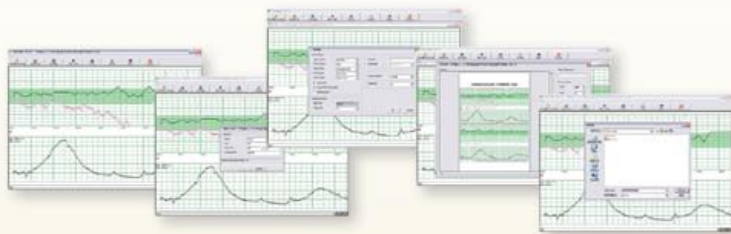
DRE Tempo Series monitors are available with:

- **Compact Design**
Easy to move and mount to wall
- **Highly Sensitive Transducer**
Uses nine-crystal ultrasound technology
- **Automatic Fetal Movement Detection**
Automatically detect fetal movement via ultrasound transducer
- **Built-in Thermal Printer**
High resolution, long life printer helps document fetal traces
- **Intrapartum Monitor**
Optional DECG and IUP monitoring
- **Built-in Network Connecting Interface**
Compatible with wireless and cable LAN obstetrical central station

The DRE Tempo II also features:

- **Large display**
Six-inch LCD folding screen simultaneously displays waveforms and digitals
- **Powerful memory**
Reload 12 hours of memory for patient data
- **Battery**
Built-in rechargeable battery for four hours of continuous work

Features **Insight Software** that lets you transfer data in real time



- Transfer data to standard PC
- Record events and comments
- Manage patient information
- Print on standard paper
- Store and review patient data

Technical Specifications

Physical Characteristics

- Dimensions 330 mm x 270 mm x 100 mm
- Weight Approx. 3.5 kg

Safety

- Complies with IEC 60601-1, IEC 60601-1-2
- Anti-electric Shock Type Class I equipment without internal power supply
- Anti-electric Shock Degree:
 - FHR1, FHR2, TOCO, MARK, FS: B
 - IUP: BF
 - DECG: CF
- Working System Continuous running equipment

Power Supply

- Working Voltage 100V-240V AC
- Line Frequency 50/60 Hz
- Pmax 60VA
- Fuse T1, 6AL

Environment

- Temperature 5° C - 40° C
- Relative Humidity ≤80%
- Atmospheric Pressure 86KPa - 106KPa

Display

- LED display (Tempo)
- LCD display (Tempo II)

Printing

- Record Paper Z-fold, thermal paper
- Printing Width 112 mm
- Effective Printing Width 104 mm
- Paper Printing Speed 1 cm/min, 2 cm/min and 3 cm/min
- FHR/DECG Printout Width 7 cm (USA standard)
8 cm (international standard)
- FHR/DECG Sealing 30 BPM/cm (USA standard)
20 BPM/cm (international standard)
- TOCO / IUP Printout Width 3.4 cm (USA standard)
2.4 cm (international standard)
- TOCO / IUP Scaling 25% / 0.85 cm (USA standard)
25%/0.6 cm (international standard)
- Data Accuracy ±5% (X axis), ±1% (Y axis)
- Record Message Date, time, TOCO type, paper speed, FHR type, bed No., etc.

Signal Interface

- RS485/RS232 interface

Ultrasound

- Technique Pulsed Doppler and auto-correlation
- FHR Range 50bpm - 210 bpm
- Resolution 1 bpm
- Accuracy ±2 bpm

DECG

- Technique Peak-peak detection technique
- FHR Range 50 bpm - 210 bpm (international standard),
30 bpm - 240 bpm (USA standard)
- Resolution 1 bpm
- Accuracy ±1 bpm
- Input Impedance >10M (differential, dc to 50/60 Hz)
- Input Impedance >20 M (common mode)
- CMRR >110dB

Contraction

- Internal IUP
 - Pressure Range (IUP) 0 mmHg - 100 mmHg
 - Sensitivity 5uV/V/mmHg
 - Non-linear Error ±1 mmHg
 - Resolution 1%
- External TOCO
 - TOCO Range 0% - 100%, 135 g strength corresponding to 100%
 - Sensitivity 3.7uV/V/mmHg
 - Non-linear Error ≤ ±10%
 - Resolution 1%
 - Zero Mode Automatic / Manual

AFM

- Technique Pulsed Doppler ultrasound
- Range 0% - 100%
- Resolution 1%
- Gain Control Manual / Automatic (Tempo II only)

Mark

- Manual fetal movement mark

Battery (Rechargeable Lithium-ion Battery – Tempo II only)

- Nominal Capacity 6000 mAh
- Charge Mode Constant current/constant voltage
- Nominal Voltage 14.8V

Model	Twin FHR	DECG & IUP	Lithium-ion Battery	Fetal Track Data Storage	Insight Software	Fetal Stimulator
Tempo Basic	No	No	No	No	Yes	Optional
Tempo Dual	Yes	No	No	No	Yes	Optional
Tempo Pro	No	Yes	No	No	Yes	Optional
Tempo II	Optional	Optional	Optional	Yes	Yes	Optional