

# Fetal Monitor

## Model: FM 301



### General Features

- Display : **Foldable 10.4" colour LED**
- 12-crystal pulse Doppler transducer (Waterproof probes are optional)
- Large capacity storage space, **8640 hours for fetal trace storage**
- Medical and para-medical can input or, search by patient ID, name and Mobile number
- **FHR Signal quality indicator helps optimize the probe position**
- Event movement makes it easy to annotate perceived fetal movements (FM)
- Fetal movement profile detects and automatically records gross fetal body movements
- Heart rate offset mode allowing you to offset **FHR 2 : -30bpm ~ +30bpm**
- **Cross channel verification** provides visual/audible indication when detects synchronous fetal or maternal heart rate or Pulse rate signals, indicating that you may be monitoring duplicate signals
- Fetal heart rate alarm provides both audible and visual alerts if heart rate is outside of the user defined high/low range
- Improved Fischer Non-Stress Test (NST) report software allows interpretation of fetal heart rate and TOCO traces, and generates a report automatically
- **USB Port** : USB Keyboard or mouse connection and software upgrading
- **Network RJ - 45** : Supporting network connection with wired / wireless connection to central monitoring station (optional)



### Technical Specifications

- Accuracy : **± 1bpm**
- Power Supply : **AC Power** : 100V to 240V, 50/60Hz  
**DC Power** : 9V, 5A
- Battery : **Rechargeable Li-Ion battery / 7.4V 2200mAh**
- Charging cycle : more than **500 times**
- Battery Backup : more than **2 hours**
- **Alarm :**
  - » Levels : **High, Medium, Low**
  - » Indication : **Auditory, Visual, Delay of FHR Alarm, Ultrasound (FHR)**
- **Measurement Method**
  - » Wide beam pulse Doppler
- **Transducer type**
  - » 12-crystal Ultrasound transducer
- FHR Measurement range : **30 ~ 240bpm**
- Accuracy : **±2 bpm**
- Intensity : **<3mW/cm<sup>2</sup>**
- Frequency : **1 MHZ ±3%**
- Resolution : **1 bpm**

# Technical Specifications

## TOCO

- Measurement Method
  - » Strain gauge sensor element
- Measurement Range : **0 ~ 100%**
- Nonlinear deviation < **±8%**
- Baseline Setting : **0, 5, 10, 15, 20 can be selective**
- Resolution : **1%**
- Auto offset correction : **3 seconds after connecting the transducer**
- Auto zero adjust : **TOCO Value is set to zero negative following a negative Measure value for 5 seconds**

## Fetal Movement Recording

- Technique : **Pulsed Doppler Ultrasound**
- Automatic fetal movement autograph
- Manual Fetal movement marker

## Printer

- Method: Thermal Printer
- Paper: **112 mm / Z-fold, thermo sensitive paper**
- Print Speed: **1, 2, or 3 cm/min**
- Record way: **Real time recording and review printing**

## Environment

- **Transport and storage**
  - Temperature: **-20°C ~ 50°C**
  - Relative Humidity: **≤ 93%**
  - Atmospheric pressure: **60 kPa~ 110 kPa**
- **Working environment**
  - Temperature: **5°C ~ 40°C**
  - Relative Humidity: **≤ 93%**
  - Atmospheric pressure: **80 kPa~ 110 kPa**

## NIBP (optional)

- Method: **Oscillometric**
- Operation Mode: **Manual / Automatic / STAT**
- Measurement Unit: **mmHg / kPa selectable**
- Measurement interval in auto mode: **1 ~ 480 minutes**
- Resolution: **1 mmHg**

## Accuracy

- Max. Standard deviation: **8 mmHg**
- Max. Mean Error: **±5 mmHg**

## Measurement Range

- » Systolic: **40 to 270 mmHg**
- » Diastolic: **10 to 210 mmHg**
- » Mean: **20 to 255 mmHg**
- Over pressure protection via Software and Hardware dual protection

## Maternal SpO2 / Pulse Rate (optional)

- Measurement Range: **0 ~ 100%**
- Resolution: **1%**
- Accuracy
  - » **±2% (70% ~ 100%)**
  - » **±3% (motion or low perfusion)**
  - » **Unspecified less than 70%**
- PR measurement range: **30 ~ 250 bpm**
- Accuracy: **±2% or ±2% whichever is greater**
- Resolution: **1 bpm**

## Dimension & Weight

- Machine Dimensions: **36 cm (W) X 26 cm (D) X 8 cm (H)**
- Machine Dimensions: **2.8 Kg**

## Optional / Upgradable

- **Twins Monitoring**
- **Fetal Stimulator**
- **Maternal Parameter (SpO2, NIBP)**
- **Touch Screen**
- **HDMI Output**
- **Central Monitoring Station**
- **Waterproof FHR Probe & TOCO probe**
- **Keyboard & Mouse control function**
- **Advanced Fischer NST Report**
- **USB Keyboard or mouse connection and software upgrading**
- **Networking RJ-45 Supporting network connection with wired/Wireless Connection to central monitoring station**

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