



medical **ECONET**
GERMANY



SMART 9

Maternal Triplets- Fetal monitor

- 13,3" TFT-LCD-Color display with adjustable view angle
- Maternal parameter (NIBP, ECG, SpO2, Respiration, Temperature)
- Waterproof (IPX68) probes with 12-crystal
- Multiple display & customized interface options
- Support HL7
- CTG Scoring system
- Built-in thermal printer and network printers possible
- Battery running time of up to 4 hours

Specifications

General	
Dimensions	372 x 262 x 84 mm (WxDxH)
Weight	approx. 5 kg
Probe size	91 ± 3 mm (L) x 76 ± 3 mm (W) x 20 ± 2 mm (H)
Display type	Color-TFT-LCD, capacitive touchscreen
Display size	13,3" (Resolution: 1920 x 1080)
Fetal heart rate	
Measuring range	50-240 bpm
Resolution	1 bpm
Toco	
Range	0-100 %
Resolution	1 %
Zero mode	Automatic (the toco value is automatically set to 0 if the measured value is 0 for 30 seconds). Manual
Maternal ECG	
Lead types	5-lead: I; II; III; aVR; aVL; aVF; V 3-lead: I; II; III (Standard)
Search speed	25 mm/s, error ≤± 10 %
Display Sensitivity	mm/mV: 1,25; 2,5; 5; 10; 20; 40 and automatic gain, and the error is less than ±5 %
Defibrillation protection	Withstands defibrillation with 5000VAC (360J)
Maternal Heart rate	
MHR Range	15 - 300 bpm
Method	Automatic oscillation
MHR accuracy	±1 % or ±1 bpm (whichever is greater)
MHR resolution	1 bpm
Respiration	
Lead	I; II or auto (default: lead II)
Method	Thoracic Impedance Method:
RR range	0 - 200 bpm
RR resolution	1 rpm
Sweep speed	3, 6,25, 12,5, 25, 50 mm/s
NIBP	
Method	Automatic oscillation
Systolic range	25-290 mmHg
Diastolic range	10-250 mmHg
Mean range	15-260 mmHg
NIBP accuracy	±3 mmHg (±0,4 kPa)
NIBP resolution	1 mmHg

SpO2	
Measuring range	0 - 100 %
Measuring accuracy	± 2 % (70-100 %)
Perfusionsindex	Yes
PR	
PR range	30-300 bpm (NIBP) 20-300 bpm (SpO2)
Accuracy	±3 bpm or ±3 % whichever is greater (NIBP) ±2 bpm (SpO2)
Temperature	
Channels	1 channel
Measuring range	0 - 50 °C
Accuracy	± 0,1 °C or ± 0,2 °F
Data review	
Patient data	60 hours per patient
Data storage	500 events or 5000 hours
Data transmission	
Data export	Ethernet / USB
HIS connection	HL7
Printer	
Type	Built-in thermal printer
Paper	Z-fold thermosensitive Paper width: 152/150 mm
Printing speed	1/2/3 cm/min.
Main unit - Power	
Mains voltage	100-240 V
Type	Rechargeable lithium-ion battery
Frequency	50/60 Hz
Battery	4400 mAh
Running time	≥ 4 hours
Charging time	≤ 4 hours
Environmental specifications	
Temperature	Operating: 0 - 40 °C Storage: -20 - 60°C

