

me7
Patient monitor

medec
international

Future technology,
available today



me7

a smart choice.

- ✓ **Modular** patient monitor
- ✓ Customised **quick keys**
- ✓ **Intuitive** user interface



Reliability

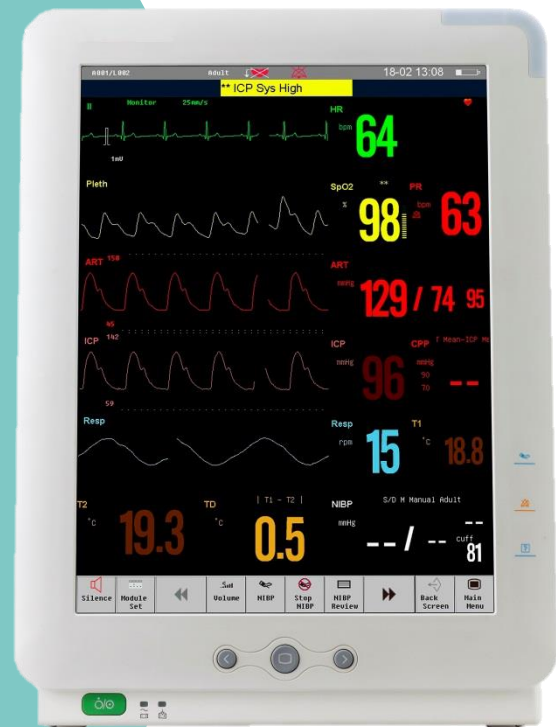
Patient safety



Cost efficiency

The Me7 is a modular patient monitor with a 15" touchscreen. With its streamlined design, user-friendly interface and integrated plug-and-play module rack the Me7 meets all modern requirements of an operating room or intensive care unit.

In standard configuration the Me7 comes with 3/5-lead ECG, RESP, SpO2, PR, 2x Temp, 2x IBP and NIBP. A wide range of additional modules can easily be plugged into the three remaining module slots.



Future technology,
available today

Technical Data

me7

Size and weight	Environment	Lead selected from: I (RA-LA) or II (RA-LL); default: I
Size: 335 mm x 366 mm x 172 mm	Operating temp.: 0°C to +40°C	
Weight: < 6 kg	Storage temp.: -20°C to +50°C	Gain: x0.25, x1, x2, x4
Standard module slot: 3	Operating humidity: 15% - 85%	Bandwidth: 0.25 Hz to 2.0 Hz (-3dB)
Power supply	Storage humidity: 10% - 93%	Sweep speed: 6.25, 12.5, 25 mm/s
Power voltage: AC 100-240V 50/60 Hz	Operating atmospheric pressure:	Measurement range: 0 - 150 rpm
Input current: 1.7-0.8A	860 hPa to 1060 hPa	Resolution: 1 rpm
Safety class: Category I	Storage atmospheric pressure:	Accuracy: ±2 rpm or 2% (greatest)
Display	500 hPa to 1060 hPa	Delay of Apnea alarm: 10 - 60s
15" colour TFT-LCD	Safety	NIBP
Resolution: 768 x 1024 pixels	IEC60601-1 approved	Measurement: automatic oscillometry
Battery	CE marking according to MDD93/42/EEC	Range:
Type: rechargeable lithium battery, 11.1V/4.0AH	ECG	Adult: SYS 30 - 270 mmHg
Operating time (normal conditions):	Mode: 3 / 5 / 12 lead ECG input	DIA 10 - 220 mmHg
≥120min (1 battery) ≥240min (2 batteries)	Lead selection: I, II, III	MAP 20 - 235 mmHg
	I, II, III, aVR, aVL, aVF, V-	Child: SYS 30 - 235 mmHg
Recorder	Optionally : I, II, III, aVR, aVL, aVF, V1-V6	DIA 10 - 220 mmHg
Method: Thermal dot array	Gain: 2.5mm/mV(x0.25), 5mm/mV(x0.5),	MAP 20 - 225 mmHg
Paper width: 50 mm (1.97")	10mm/mV (x1), 20mm/mV (x2),	Neonate: SYS 30 - 135 mmHg
Paper length: 15 m	40mm/mV (x4), Auto	DIA 10 - 100 mmHg
Paper speed: 12.5 / 25 / 50 (mm/sec)	CMRR: Monitor mode ≥ 105dB	MAP 20 - 125 mmHg
Traces: Maximum 3 tracks	Surgery mode ≥ 105dB	Cuff pressure range: 0 - 300 mmHg
Recording: real time / periodic / alarms	Diagnostic mode ≥ 90dB	Resolution: 1 mmHg
Alarms	Frequency response (~3dB):	Pressure accuracy:
Level: low, medium, high	Input impedance: ≥ 5.0 Mohm	Static: ±2% or ±3 mmHg (greatest)
Indication: auditory and visual	ECG signal range: ± 10.0 mV	Clinical: ±5 mmHg average error
Light colour: blue, yellow, red	Electrode offset potential: ± 500 mV	Standard deviation: ≤ 8 mmHg
Pitch tone and multi-level volume	Patient leakage current: < 10uA	Unit: mmHg, kPa
Custom arrhythmia tone	Standardising signal: 1mV ±5%	Measurement mode: Manual, AUTO, STAT
Input device	Baseline recovery: < 5s after defib.	Intervals for AUTO: 1-90 min; 2-12 hours
Touchscreen: standard	Indication of electrode separation:	STAT mode cycle time: keep 5 min, at 5 sec
Mouse input: supported	Every electrode (excl. RL)	interval
Keyboard input: supported	Protection: breakdown voltage 4000VAC	Overpressure protection: HW & SW
System output & Interfaces	50/60Hz, defibrillator proof	Pulse rate range: 40 - 240 bpm
Ethernet network: 1x RJ45 socket	Sweep speed: 12.5, 25, 50 mm/s	SpO₂ (Digital Technic)
Defibrillation output: 1x BNC connector	HR	Measurement range: 0 - 100%
Nurse call: 1x RJ11 connector	Range: Adult 10-300 bpm	Resolution: 1%
Video output: 1x VGA port	Paed. & neonate 10-350 bpm	Accuracy: At 70-100%, ±2%
USB port: 2x	Refreshing time: ≤ 50 bpm (per 2 pulses)	At 40-69%, ±3%
SD memory card: 2 GB (option)	50-120 bpm (per 4 pulses)	At 0-39%, unspecified
Analog output (ECG or IBP): option	≥ 120 bpm (per 6 pulses)	PR
Trend & Reviewing	Resolution : 1 bpm	Measurement range: 25-254 bpm
Trend: 168 hours (LR) / 60 min (HR)	Accuracy: 0.01mV	Resolution: 1 bpm
Low resolution (LR): minimum 1 minute	ST segment	Accuracy: ±1% or ±1 bpm (greatest)
High resolution (HR): minimum 5 seconds	Measurement range: -2.0mV-2.0mV	SpO₂ (Nellcor)
NIBP measurement review: 1000 groups	Accuracy: -0.8mV-0.8mV: ± 0.02mV or 10%	Measurement range: 0 - 100%
APR event: 128 groups	> ±0.8mV: unspecified	Resolution: 1%
Alarm event: 128 groups	Resolution: 0.01mV	Accuracy: At 70-100%, ±2% (Adult/Paed.)
Full disclosure waveform: 24 hours for 3 waveforms (with SD card)	RESP	At 70-100%, ±3% (Neonate)
	Method: Thoracic impedance	At 0-69%, unspecified

a smart choice.

Technical Data

me7

PR	EtCO₂ (sidestream)	Resolution: 1 %
Measurement range: 20-300 bpm	Method: Infrared spectrum	Unit: %
Resolution: 1 bpm	Range: 0.0 -13.1% (0-99.6 mmHg)	Calibration: Room air calibration
Accuracy: 20-250 bpm, ±3 bpm	Resolution: 1 mmHg	performed automatically when changing
251-300 bpm: unspecified	Unit: %, mmHg, kPa	airway adapter (< 5 sec)
SpO₂ (Masimo)	Accuracy: 0 to 4.9 %: ±0.3 % (±2.0 mmHg)	Warm-up time: < 10 sec, fully accurate
Measurement range: 0 - 100%	5.0 to 13.1 %: < ±10 % of reading	within 1 min
Resolution: 1%	Range of awRR: 3-150 bpm	Measurement and alarm range of AG:
Accuracy: At 70-100%, ±2% (Adult/Paed.)	Calibration: Offset calibration, auto,	CO ₂ range: 0-15 %
At 70-100%, ±3% (Neonate)	manual, Gain calibration	CO ₂ accuracy: ± (0.3 % ABS + 4 % REL)
At 0-69%, unspecified	EtCO₂ (mainstream)	N ₂ O range: 0-100 %
Average time: 2-4, 4-6, 8, 10, 12, 14, 16 sec	Method: Infrared spectrum	N ₂ O accuracy: ± (2 % ABS + 5 % REL)
PR	Warm-up time: capnogram < 15 s @25°C	O ₂ range: 0-100 %
Measurement range: 25-240 bpm	full specs ≤ 2 min	O ₂ accuracy: ± (2 % ABS + 2 % REL)
Resolution: 1 bpm	Range: 0.0-19.7 % (0-150 mmHg)	HAL, ENF, ISO range: 0-8 %
Accuracy: ±3 bpm	Resolution: 1 mmHg	HAL, ENF, ISO accuracy: ± (0.2 % ABS + 10 %
TEMP	Rise time (10 l/min): ≤ 60 ms	REL)
Max channel: 8	Unit: %, mmHg, kPa	SEV range: 0-10 %
Measurement: Thermal resistance	CO ₂ accuracy:	SEV accuracy: ± (0.2 % ABS + 10 % REL)
Measurement range: 0.0-50.0°C (32-122°F)	0-40 mmHg, ±2 mmHg	DES range: 0-22 %
Accuracy: ± 0.1°C or ± 1 °F	41-70 mmHg, ±5 % of reading	DES accuracy: ± (0.2 % ABS + 10 % REL)
Resolution: 0.1°C or 1°F	71-100 mmHg, ±8 % of reading	awRR measurement range: 0-150 bpm
Unit: Celsius (°C), Fahrenheit (°F)	101-150 mmHg, ±10 % of reading	awRR measurement accuracy: ± 1 bpm
IBP	(at 760 mmHg, ambient temp. of 35°C)	Rise time (10 l/min):
Max channel: 8	awRR measurement range: 0-150 bpm	CO ₂ ≤ 90 ms
Measurement: Directly invasive pressure	awRR measurement accuracy: ± 1 bpm	O ₂ ≤ 300 ms
Transducer sensitivity: 5uVV/mmHg, ±2%	EtCO₂ (microstream)	N ₂ O ≤ 300 ms
Transducer impedance: 300 to 3000Ω	Method: Infrared spectrum	HAL, ENF, ISO, SEV, DES ≤ 300 ms
Measurement range: -50 - +350 mmHg	Warm up time: capnogram < 20 s @25°C	Total system response time: < 1 sec
Resolution: 1 mmHg	full specs ≤ 2 min	CO
Unit: mmHg, kPa, cmH ₂ O	Range: 0.0-19.7 % (0-150 mmHg)	Method: Thermal dilution
Accuracy:	Resolution: 1 mmHg	Wave: Thermal dilution curve
Static: ± 1 mmHg or ±2% (greatest)	Unit: %, mmHg, kPa	Parameters: CO, TB, TI, CI
± 4 mmHg or ±4% (greatest)	CO ₂ accuracy:	Range: CO: 0.1 l/min - 20 l/min
Dynamic: ± 4 mmHg or ±4% (greatest)	0-40 mmHg, ±2 mmHg	TB: 23.0 - 43.0 °C
Transducer sites:	41-70 mmHg, ±5 % of reading	TI: -1.0 - 27.0 °C
Arterial pressure (ART)	71-100 mmHg, ±8 % of reading	Resolution: CO: 0.1 l/min
Pulmonary Artery pressure (PA)	101-150 mmHg, ±10 % of reading	TB: 0.1 °C
Left Atrium Pressure (LAP)	(at 760 mmHg, ambient temp. of 25°C)	TI: 0.1 °C
Right Atrium Pressure (RAP)	(when RR > 80 bpm, ± 12% of reading)	Accuracy: CO: 2 % SD
Central Venous Pressure (CVP)	CO ₂ response time : < 3 sec	TB: ± 0.1 °C
Intracranial Pressure (ICP)	awRR measurement range: 2-150 bpm	TI: ± 0.1 °C
P1/P2	awRR measurement accuracy: ± 1 bpm	TB alarm range: 23.0 - 43.0 °C
Selection of measurement range:	Sample flow rate: 50 ml/min ±10 ml/min	Limits can be adjusted continuously
ART: 0 to +350 mmHg	Anaesthetic gas	
PA: -10 to +120 mmHg	Method: Infrared spectrum	
CVP/RAP/LAP/ICP: -10 to +40 mmHg	Fi and Et values: CO ₂ , N ₂ O, O ₂ , AG (HAL,	
P1/P2: -50 to +350 mmHg	ENF, ISO, SEV, DES)	

a smart choice.



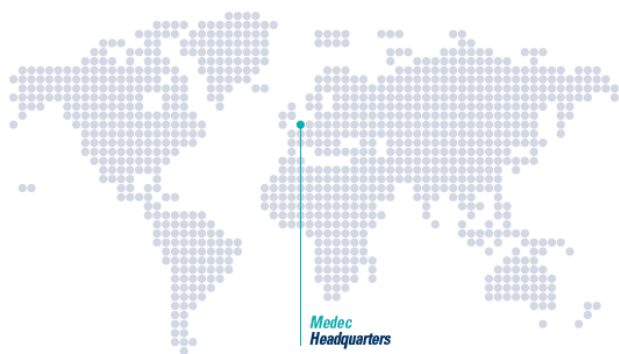
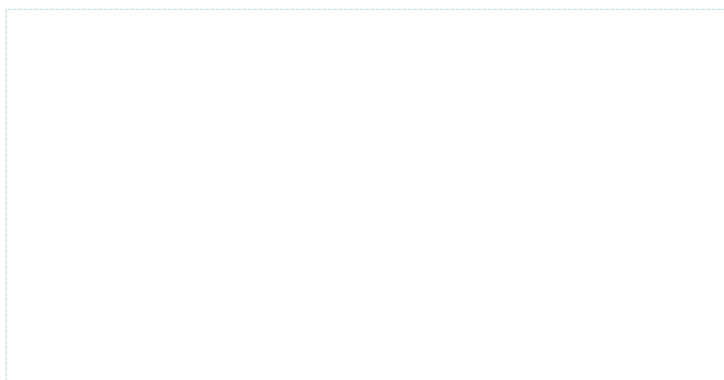
Reliability

Patient safety



Cost efficiency

Your local distributor



**Made in Belgium,
the heart of Europe**



Specifications and features of products are subject to change without prior notice and may differ from those shown or stated herein.

