iM50

Patient Monitor Version 1.1

Data Sheet





iM50 Patient Monitor Specification					
Physical Specifications					
Dimension	261 mm (W) × 215 mm (H) ×198 mm (D)				
Weight	< 3.6 kg (stand	< 3.6 kg (standard configuration, without battery)			
Power Supply					
Power Supply	100 V to 240 V	~, 50 Hz/60 Hz			
Current	1.0 A-0.5 A				
Battery					
Battery Type	Rechargeable l	lithium-ion battery			
Capacitance	2500 mAh , 500	00 mAh			
On a nation of Time a	2500 mAh	≥3.5 h			
Operating Time	5000 mAh	≥7 h			
	2500 mAh	≤3.5 h, 100% charge			
Chargo Timo	2500 MAN	≤3.15 h, 90% charge			
Charge Time	5000 mAh	≤6.5 h, 100% charge			
	5000 MAN	≤5.85 h, 90% charge			
Display					
Display screen	8.4 inch color T	FT, touch screen available			
Resolution	800×600				
Wave	A maximum of	13 waveforms (with 12-lead ECG function)			
Recorder					
Record Width	48 mm	48 mm			
Paper Speed	12.5 mm/s, 25	mm/s, 50 mm/s			
Channels	3				
	Continual real-t	ime recording			
	8-second real-time recording				
	20-second real-time recording,				
	Trend graph recording				
	Trend table recording				
	NIBP review recording				
	Arrhythmia review recording				
Recording types	Alarm review recording				
Recording types	Drug calculation titration recording				
	Hemodynamic Calculation result recording				
	Oxygenation Calculation result recording				
	Ventilation Calculation result recording				
	Renal Function Calculation result recording				
	12-lead diagnosis recording				
	C.O. measurement recording				
	Frozen waveform recording				



Data Storage					
Trend data		1 hour, at 1 s resolution			
	rrena data	120 hours, at 1 min resolution			
Internal Temporary	Alarm events	Up to 200 sets			
Memory	NIBP Measurement data	1200 sets			
	Arrhythmia events	Up to 200 sets			
	12-lead Diagnosis results	Up to 50 sets			
	A single piece of patient data	maximally contains the following information:			
	Trend graph and trend table	240 hours			
Non-volatile Memory	NIBP measurement review	1200 sets			
(internal or external	Alarm review	200 sets			
storage device)	Arrhythmia event	200 sets			
	12-lead diagnosis review	50 sets			
	Full disclosure Waveforms	48 hours			
Wi-Fi					
IEEE	802.11b/g/n				
Frequency Band	2.4 GHz ISM band				
Interfaces and others					
Nurse call / analog outpu	t/ defibrillator synchronization	l			
USB Interfaces		2			
VGA Interface		I			
Network Interface					
Anti-theft lock interface		I			
ECG					
	3-Lead: I, II, III				
Lead Mode	5-Lead: I, II, III, aVR, aVL, aVF, V				
	12-Lead: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6				
Lead naming style	AHA, IEC				
Display Sensitivity	1.25 mm/mV (x0.125), 2.5 mm/mV (x0.25), 5 mm/mV (x0.5),10 mm/mV (x1), 20				
(Gain Selection)	mm/mV (x2), 40 mm/mV (x4), AUTO gain				
Sweep speed	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s				
	Diagnosis: 0.05 Hz to 150 Hz				
Bandwidth (-3 dB)	Monitor: 0.5 Hz to 40 Hz				
	Surgery: 1 Hz to 20 Hz				
	Diagnosia: x 05 dP				
CMRR	Diagnosis: >95 dB Monitor: >105 dB				
Civilata	Surgery: >105 dB				
In diagnosis, monitor and surgery modes: 50 Hz/60 Hz					
Notch		•			
	(Notch filter can be turned on or off manually)				



ESU Protection Cut mode: 300 W Coagulation mode: 100 W Restore time: ≤10 s one among I, II, III, AVR, AVL, AVF, V1, V2, V3,V4, V5, V6 lead Heart Rate Range Adult: 15 bpm to 300 bpm Ped: 15 bpm to 350 bpm Accuracy ±1½ or ±1 bpm, whichever is greater Resolution 1 bpm PVC Range Adult: 0 to 300 PVCs/ min Ped/Neo: 0 to 350 PVCs/ min Resolution 1 p VCs/min ST value Range -2.0 mV to +2.0 mV -0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT ExtremeBrady V-Tach Vent Brady Wide QRS Tachy Non-Sustain VT ExtremeBrady V-Tach Vent Rhythm Acc. Vent Rhythm Pucs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Irr Rhythm PAC Trigeminy PAC Trigeminy PAC Trigeminy PAC Trigeminy Time limit of P wave (ms) PR Interval (ms) QRS interval (ms) QRS interval (ms) QT/QTC (ms) P-QRS-TAXIS	Recovery time after defibrillation	<5 s				
Restore time: ≤10 s		Cut mode: 300 W				
Pace pulse detecting lead one among I, II, III, AVR, AVL, AVF, V1, V2, V3,V4, V5, V6 Heart Rate Range Adult: 15 bpm to 300 bpm Ped: 15 bpm to 350 bpm Accuracy ±1% or ±1 bpm, whichever is greater Resolution 1 bpm PVC Range Adult: 0 to 300 PVCs/ min Ped/Neo: 0 to 350 PVCs/ min Resolution 1 PVCs/min ST value Range -2.0 mV to +2.0 mV Accuracy -0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Gouplet Run PVCs Multiform PVCs IPVC Urr Rhythm PAC Bigeminy PAC Bigeminy PAC Trigeminy 1 Pacer act Capture PAC Bigeminy PAC Trigeminy Pacer act Capture PAC Bigeminy PAC Trigeminy Pacer parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QRS interval (ms) QRS interval (ms)	ESU Protection	Coagulation mode: 100 W				
Lead		Restore time: ≤10 s				
Range	·	one among I, II, III, AVR	, AVL, AVF, V1, V2, V3,V4, V	√5, V6		
Range	Heart Rate					
Ped: 15 bpm to 350 bpm	Range	Adult: 15 bpm to 300 bp	m			
Resolution 1 bpm PVC Range Adult: 0 to 300 PVCs/ min Ped/Neo: 0 to 350 PVCs/ min Resolution 1 PVCs/min ST value Range -2.0 mV to +2.0 mV Accuracy -0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interv	rvarige	Ped: 15 bpm to 350 bpm	า			
PVC Range Adult: 0 to 300 PVCs/ min Ped/Neo: 0 to 350 PVCs/ min Ped/Neo: 0 to 350 PVCs/ min Resolution 1 PVCs/min ST value Range -2.0 mV to +2.0 mV Accuracy -0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Immedimit of P wave (ms) PR interval (ms) QT/QTC (ms)	Accuracy	±1% or ±1 bpm, whichev	ver is greater			
Range	Resolution	1 bpm				
Range Ped/Neo: 0 to 350 PVCs/ min Resolution 1 PVCs/min ST value Range -2.0 mV to +2.0 mV Accuracy -0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Tim	PVC					
Ped/Neo: 0 to 350 PVCs/ min	Range					
Range -2.0 mV to +2.0 mV -0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV	-		s/ min			
Range -2.0 mV to +2.0 mV -0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)		1 PVCs/min				
Accuracy -0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater. Beyond this range: not specified. Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs Irr Rhythm PAC Bigeminy PAC Trigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)		T				
Resolution 0.01 mV Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PRS interval (ms) QRS interval (ms) QT/QTC (ms)	Range	-2.0 mV to +2.0 mV	-2.0 mV to +2.0 mV			
Arrhythmia analyses Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	Accuracy		•			
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Asystole Sustain VT V-Fib/V-Tach ExtremeTachy ExtremeBrady V-Tach Vent Brady Tachy Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	Arrhythmia analyses	<u> </u>				
Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)			V-Fib/V-Tach	ExtremeTachy		
Brady Wide QRS Tachy Non-Sustain VT Afib Vent Rhythm Acc. Vent Rhythm Pause Pauses/min High PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) PAC Bigeminy PAC Trigeminy 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	ExtremeBrady	V-Tach	Vent Brady	Tachy		
PVCs High R on T PVC Bigeminy PVC Trigeminy Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	Brady	Wide QRS Tachy	Non-Sustain VT	Afib		
Pacer not Pacing Pacer not Capture Missed Beat VEB PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	Vent Rhythm	Acc. Vent Rhythm	Pause	Pauses/min High		
PVC Couplet Run PVCs Multiform PVCs IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	PVCs High	R on T	PVC Bigeminy	PVC Trigeminy		
IPVC Irr Rhythm PAC Bigeminy PAC Trigeminy Low Voltage(Limb) 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	Pacer not Pacing	Pacer not Capture	Missed Beat	VEB		
Low Voltage(Limb) 12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	PVC	Couplet	· ·			
12-lead ECG synchronization analysis Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	IPVC	Irr Rhythm	·			
Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	Low Voltage(Limb)					
Average parameters of heart beat Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	12-lead ECG synchro	onization analysis				
Heart rate (bpm) Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)						
Time limit of P wave (ms) PR interval (ms) QRS interval (ms) QT/QTC (ms)	U ,					
PR interval (ms) QRS interval (ms) QT/QTC (ms)	,	ns)				
QRS interval (ms) QT/QTC (ms)	,					
QT/QTC (ms)						
	QT/QTC (ms)					
	` '					



RESP					
Method	Impedance between RA-LL, RA-LA				
Measurement lead	Options are lead I and II				
Mossuring Pango	Adult	0 rpm to 120 rpm			
Measuring Range	Ped/Neo 0 rpm		m to 150 rpm		
Resolution	1 rpm				
	Adult	6 rpm	6 rpm to 120 rpm: ±2 rpm		
Accuracy		0 rpm	0 rpm to 5 rpm: not specified		
Nocuracy	Ped/Neo		6 rpm to 150 rpm: ±2 rpm		
		0 rpm	to 5 rpm: not specified		
Gain Selection			2, x 3, x 4, x 5		
Sweep	<u> </u>		m/s, 25.0 mm/s, 50.0 mm/s		
Apnea Alarm Time	10 s, 15 s,	20 s, 25	5 s, 30 s, 35 s, 40 s		
NIBP	_				
Method	Oscillometr	•			
Mode	Manual, Au	to, Con	tinuous		
Measuring Interval in	1/2/3/4/5/10	0/15/30/	/60/90/120/180/240/360/480 min		
Auto Mode		1/2/3/1/3/10/10/00/00/00/120/100/240/000/400 111111			
Continuous	5 min, inter				
Measuring Type	SYS, DIA,	SYS, DIA, MAP, PR			
	Adult Mode		SYS: 40 mmHg to 270 mmHg		
			DIA: 10 mmHg to 215 mmHg		
			MAP: 20 mmHg to 235 mmHg		
			SYS: 40 mmHg to 230 mmHg		
Measuring Range	Pediatric Mode		DIA: 10 mmHg to 180 mmHg		
			MAP: 20 mmHg to 195 mmHg		
	Neonatal Mode		SYS: 40 mmHg to 135 mmHg		
			MAP: 20 mmHg to 110 mmHg		
Cuff Pressure					
Measuring Range	0 mmHg to	0 mmHg to 300 mmHg			
Pressure Resolution	1 mmHg				
Maximum Mean Error	±5 mmHg				
Maximum Standard					
Deviation	8 mmHg				
Maximum Measuring	Adult/Pediatric 120 s				
Period	Neonatal		90 s		
Typical Measuring	20 s to 35 s (depend on HR/motion disturbance)				
Period	20 8 10 35 8	, (ueper	iu on mr/motion disturbance)		



	1			
Overpressure	Adult 297±3 mmHg			
Protection	Pediatric	245±3 mmHg		
	Neonatal 147±3 mmHg			
PR				
Measuring range	40 bpm to 240 bpi	m		
Accuracy	±3 bpm or 3.5%, v	vhichever is greater		
SpO ₂				
EDAN Module				
Measuring Range	0% to 100%			
Resolution	1%			
Data update period	1 s			
	Adult/Pediatric	±2% (70% to 100% Sp	pO ₂)	
Acquirocvi	Addit/Fediatific	Undefined (0% to 69%	SpO ₂)	
Accuracy	Neonatal	±3% (70% to 100% Sp	OO_2)	
	ineonatai	Undefined (0% to 69%	SpO ₂)	
PI (Perfusion Index)				
Measuring Range	0-10	0-10		
Resolution	1			
Pulse Rate	•			
Measuring Range	25 bpm to 300 bpm			
Resolution	1 bpm			
Accuracy	±2 bpm			
Nellcor Module				
Measuring Range	1% to 100%			
Resolution	1%			
Data Update Period	1s			
	DS-100A, OXI-A/N	N(Adult)		
	D-YS (Adult and Pediatric)		±3% (70% to 100% SpO ₂)	
	OXI-P/I (Pediatric)			
	MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST (Adult and Pediatric) ±2% (70%~100%)			
Accuracy			±2% (70%~100% SpO ₂)	
riodardoy	, , , , , , , , , , , , , , , , , , ,			
	MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST (Adult and Pediatric) ±3% (60%~80% SpO ₂)		±3% (60%~80% SpO ₂)	
	<u> </u>			
	If sensor is used for neonate as recommended, the accuracy will be larger than adult			
by ±1.				
Pulse Rate	00 hm 1- 000 l			
Measuring Range	20 bpm to 300 bpm			
Resolution	1 bpm			
Accuracy	±3 bpm (20 bpm to	o 250 bpm)		



TEMP				
Channel	2			
Sensor type	YSI-10K and YSI-2.252K			
Technique	Thermal resistance			
Measure Parameter	T1, T2, TD			
Position	Skin, Oral, Rectum			
Unit	°C,°F			
Measuring Range	0°C to 50°C (32 °F t	to 122 °F)		
Resolution	0.1°C (0.1 °F)			
A	Accuracy (not including	ng sensor): ±0.1°C		
Accuracy	Sensor accuracy: ≤ ±	0.2°C		
Transient Response Time	≤30 s			
Quick TEMP ¹⁾				
Measuring Range	25°C ~ 45°C (monitoring mode) 35.5°C ~ 42°C (prediction mode)			
Sensor Type	Oral/Axillary sensor,	Rectal sensor		
Resolution	0.1°C			
Accuracy (not including sensor)	±0.1°C (25°C ~ 45°C) (monitoring mode)			
Sensor accuracy	≤ ±0.2°C			
Update time	1 s ~ 2 s			
Warm-up time	Less than 10 seconds			
Prediction time	Less than 30 seconds			
IBP				
Channel	2			
Technique	Direct invasive meas	urement		
	Art	0 mmHg to +300 mmHg		
Magazzina ranga	PA	-6 mmHg to +120mmHg		
Measuring range	CVP/RAP/LAP/ICP	-10 mmHg to +40 mmHg		
	P1/P2 -50 mmHg to +300 mmHg			
Resolution	1 mmHg			
Accuracy (not including sensor)	±2% or ±1 mmHg, whichever is greater ICP: 0 mmHg to 40 mmHg: ±2 % or ±1 mmHg, whichever is greater; -10 mmHg to 0 mmHg: undefined			
Unit	kPa, mmHg, cmH2O			
PR				
Measuring Range	20 bpm to 300 bpm			
· -				



Resolution	1 bpm					
Accuracy	30 bpm to 300 bpm: ±2 bpm or ±2%,whichever is greater; 20 bpm to 29 bpm: undefined					
CO ₂						
EDAN G2 Module						
Intended patient	Adult, Pe	ediatric, Neonatal				
Measure Parameters	EtCO ₂ ,	FiCO ₂ , AwRR				
Unit	mmHg, ⁹	%, kPa				
Magazina Banga	CO ₂ 0 mmHg to 150 mmHg (0% to 20%)					
Measuring Range	AwRR 2 rpm to 150 rpm					
	EtCO ₂	1 mmHg				
Resolution	FiCO ₂	FiCO ₂ 1 mmHg				
	AwRR					
		±2 mmHg, 0 mmHg to 40 mmHg	Typical conditions:			
		±5% of reading, 41 mmHg to 70 mmHg	Ambient temperature:(25±3)°C			
		±8% of reading, 71 mmHg to 100 mmHg	Barometric pressure:(760±10)			
Accuracy	EtCO ₂	±10% of reading, 101 mmHg to 150 mmHg	mmHg Balance gas: N ₂ Sample gas flowrate: 100ml/min			
		±12% of reading or ±4 mmHg, whichever is greater	All conditions			
	AwRR ±1 rpm					
Sample Gas Flowrate	70 ml/min or 100 ml/min, accuracy: ±15 ml/min					
Warm-up time	Display waveform within 20 s Reach the design accuracy within 2 minutes.					
Response time	<4 s					
Barometric pressure compensation	Automat	Automatic				
Zero Calibration	Support					
Calibration	Support					
Apnea alarm delay	10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s, 60s					
Respironics Module						
Applicable Patient Type	Adult, Pediatric and Neonatal					
Method	Infra-red Absorption Technique					
Measure Parameters	EtCO ₂ , FiCO ₂ , AwRR					
Unit	mmHg, %, kPa					
Measuring Range	EtCO ₂ 0 mmHg to 150 mmHg					
Mododing Range	FiCO ₂	3 mmHg to 50 mmHg				



Measuring Range	AwRR	2 rpm to 150 rpm (Sidestream)			
, , , , , , , , , , , , , , , , , , ,		0 rpm to 150 rpm (Mainstream)			
	EtCO ₂	1 mmHg			
Resolution	FiCO ₂	1 mmHg			
AwRR		1 rpm			
		±2 mmF	lg, 0 mmHg to 40 m	mHg	
		±5% of reading, 41 mmHg to 70 mmHg			
		±8% of reading, 71 mmHg to 100 mmHg			
Accuracy	EtCO ₂	±10% o	f reading, 101 mmH	g to 150 mmHg	
Accuracy		±12% o	f reading, RR is over	r 80 rpm (Sidestream)	
		There w	vill be no degradation	n in performance due to respiration rate.	
		(mainsti	ream)		
	AwRR	±1 rpm			
Sample Gas Flow Rate (Sidestream)		50 ml /n	nin ±10 ml /min		
Barometric Pressure		11	4		
Compensation		User se	tup		
CO ₂ Rise Time/Response Time (Mainstream)		< 60 ms			
Sensor Response time		<3 seconds - includes transport time and rise time			
(Sidestream)		Cupport			
Zero Calibration		Support 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s			
Apnea Alarm Delay		10 S, 15	s, 20 s, 25 s, 30 s,	35 S, 40 S	
Safety Specifications		150.000	204 4 2005 44 204	0.150.00004.4.0.0044	
		IEC 60601-1: 2005+A1 :2012; IEC 60601-1-2: 2014;			
Compliant with Standard	S	EN 60601-1: 2006+A1 :2013; EN 60601-1-2: 2007;			
Anti alestrech L. T		IEC 60601-2-49: 2011			
Anti-electroshock Type		Class I equipment and internal powered equipment			
Anti-electroshock Degree	Э	CF ECG (RESP), TEMP, IBP			
			BF SpO ₂ , NIBP, CO ₂		
Ingress Protection		IPX1			
Environmental Specifi	cations			1000 (0000 10000)	
Temperature		Working	•	+0°C to +40°C (32°F ~ 104°F)	
		Transport and Storage		-20°C to +55°C (-4°F ~ 131°F)	
Humidity		Working		15%RH to 95%RH (non-condensing)	
		Transport and Storage		15%RH to 95%RH (non-condensing)	
Altitude		Working		86 kPa to 106 kPa	
		Transport and Storage		70 kPa to 106 kPa	

¹⁾ Quick TEMP module cannot be configured with CO₂ module at the same time.

^{*} Specifications are subject to change without prior notice

