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NC3 Vital Signs Monitor

I .Monitor Type 1. Safety standard

Name	type
The degree of ingress protection (The host)	IPX1
The degree of ingress protection (infrared ear thermometer)	IPX0
The degree of safety in the condition of flammable anesthetic gas mixed withthe mixture like air, the oxygen or nitrous oxide mixture (It's NA)	The device cannotbe used in the case of flammable anesthetic gas mixed with air and the mixture of oxygen or nitrous oxide.
Operation Mode	Run the device continuously

2. Environmental Demands

Name	Specifications		
	Range of temperature	$0^{\circ}C \sim 40^{\circ}C$ (without ear thermometer) $15^{\circ}C \sim 36^{\circ}C$ (with ear thermometer)	
Work environment	Range of Rh	≤93% non-condensing (without ear thermometer ≤85% non-condensing(with ear thermometer	
	Range of atmospheric pressure	70kPa~106kPa	
	Power voltage	100-240V \sim	
Demands on the power supply voltage	Power frequency	50/60Hz	
	Rated input power	35VA	
transportation	Prevent severe shock, vit	pration and splash from rain and snow in the process of transportation	
		$20^{\circ}C \sim +60^{\circ}C($ without ear thermometer) $20^{\circ}C \sim +55^{\circ}C($ with ear thermometer)	
Storage environment	selative numidity	\$93%(without ear thermometer) \$85%(with ear thermometer)	
	Atmospheric 77	70kPa~106kPa	

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3. Battery

Name Specifications			
Battery specifications(host)	2200mAh 11.1V lithium ion battery		
Duration of charging	When monitor is not work, the fully charging time will no longer than 3 hours		
	When monitor is work, the fully charging time will no longer than 5.5 hours.		
Endurance time	It can last at least 12 hours in the fully charged condition when it is on standby. Moreover it can run		
	five minutes after the first warning triggered due to low battery power.		
Battery Specifications(ear thermometer))	d.c 3v(2 batteries)		

II.Hardware Specification

1. Display

Name	Specifications
Broken code display	100mm*120mm

2. Host LED

Name	Specifications
Start/stop indicator	1(Yellow/Green)
AC power indicator	1(Green)
Battery indicator	1(Green)

3. Interface

Name	Number
Power	1
RS-232	1
Equipotential socket	1

4. Signal Output

Name Number	
Acoustic Output	
Louderspeaker Supporting self-test sound and pulse sound	

III.Monitor Specification

1. Size and Weight

Name	Specifications	
Size and Weight	Size:130mm(in length)*125mm(in width)*219mm(in height)	
Size and Weight	Weight of the device: 1.25Kg, weight of battery: 0.25Kg	

2. NIBP Specifications

Name	Specifications		
Way of measurement	Self-oscillation method		
Parameter display	Systolic pressure, diastolic blood, mean pressure and pulse		
	Range of	Systolic pressure	5.3-36kPa (40-270mmHg)
	measurement for adult	Diastolic pressure	1.3-28.7kPa (10-215mmHg)
		Mean pressure	2.7-31.3kPa (20-235mmHg)
	Range of measurement for child	Systolic pressure	5.3-26.7kPa (40-200mmHg)
Range and accuracy of		Diastolic pressure	1.3-20kPa (10-150mmHg)
measurement		Mean pressure	2.7-22kPa (20-165mmHg)
	Range of	Systolic pressure	5.3-18kPa (40-135mmHg)
	measurement for neonate	Diastolic pressure	1.3-13.3kPa (10-100mmHg)
		Mean pressure	2.7-14.7kPa (20-110mmHg)
	Accuracy of Measurement	\pm 5mmHg, when the non-invasive blood pressure is beyond the range, the monitor still displays properly, but does not consider accuracy.	
Resolution	1mmHg(0.1kPa)		
The measurement rang and accuracy of static pressure			

3. SpO2 Specifications

Name	Specifications			
Data averaging and other signal processing time	2 seconds			
Data update period	8 second	8 seconds		
Resolution of display	1%			
		Measurement range	Accuracy(70%~100%)	Accuracy(0%~69%)
	Come n	0%~100%	\pm 2 % (measured without motion in adult/child mode) \pm 3 % (measured without motion in neonate mode)	
Accuracy Detection	Masi mo	1%~100%	\pm 2 % (measured without motion in adult/child mode) \pm 3 % (measured with motion in adult/child mode or measured in neonate mode))	Not specified
	Nellco r	0%~100%	\pm 2 % (measured without motion in adult/child mode) \pm 3 % (measured without motion in neonate mode)	
Perfusion Index(PI)	There is indicator function in Masimo mode, the measurement range is 0.01%~20%, accuracy is not specified. In the scope of 0.05%~9.99%, the resolution is 0.01%, 0.1% in the scope of 10%~20%.			
Low perfusion				
Conditions	Pulse amplitude: >0.2%			
Conditions	SpO ₂ accuracy: $\pm 3\%$			

4. Pulse Rate Speculations

Name		Specifications			
			Measurement range	Resolution	Error
Range and accuracy	and	Comen	20bmp~250bpm	1bmp	±2bmp
	Masimo	25bpm~240bpm	1bpm	\pm 3bpm(no motion) \pm 5bpm(motion)	
		Nellcor	25bpm~250bpm	1bpm	±3bpm

5. TEMP Specifications

Name		cifications
Dange and ecouracy	Range	$34^{\circ}C \sim 42.2^{\circ}C (93.2^{\circ}F \sim 107.6^{\circ}F)$
Range and accuracy	Error	35°C~42°C: the error is $\pm 0.2°C$ ($\pm 0.4°F$) Other range: $\pm 0.3°C$ ($\pm 0.5°F$)
Resolution	0.1°C(0.1°F)	

COMEN, one of the leading medical device manufacturers in China, and admitted to be the quickest developing company in medical industry.

COMEN design and produce medical devices for OR, NICU, and ICU. The product range covers Anesthesia devices, Monitoring & diagnostic products, Infant incubators, ventilators, medical pendants, operation light, all designed with specific patient data managing system to link-in to multiple medical database. Based in Shenzhen - the hi-tech "headquarter" of China, COMEN has 30 branch offices operating business in China and 8 international branch offices in: USA, Russia, Turkey, Mexico, Thailand, India, Malaysia and Indonesia.

With all over 50,000 install bases in hospitals and medical centers globally, COMEN products are accepted and favored with its friendly design and excellent performance.

Specifications subject to change without notice

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