



ViTUS 12s

12" Slim Patient Care Monitor, Suitable for Bedside and Portable Use

- Complete & Reliable Solution for All Care Areas
- High Quality & Full Functionality
- 2 Years Warranty and Reliable Customer Supports



ViTUS 12s Bed Side Monitor

Vitus 12s is a portable bedside monitor with 12" screen which offers a variety of advanced features and parameters such as Masimo Rainbow set[®], Cardiac Output and 12-Lead ECG. The monitors could connect to Trionara Central System; Vitus CS, and communicate with HIS through Trionarae Gateway or Vitus CS. While Vitus 18 provides 18.5" LED backlight wide screen, Vitus 12 with Light and compact body facilitates bedside or portable use. Touch Screen and Thermal Recorder are available as options for easier user operationand more functionality.



Features:

- 12" LED-Backlight Color TFT / 800 \times 600; Slim Portable Patient Monitor
- 6 to 8 signal traces and Up to 10 parameters : HR, NIBP, RESP, Gas interface, IBP (2 Channels), ECG (3/7 Leads), SPO2 Masimo SET, 2TEMPs
- Wire Networking with central system
- Direct AC power & internal rechargeable battery
- ARR and ST segment analyzer

Options:

- CO2 & Multi-Gas Analyzer (Main Stream / Side Stream)
- Cerebral State Monitoring (Dual Processor), Brain Assessment Function, BFA
- Intra Cranial Pressure Monitoring (ICP)
- 12 Leads ECG
- Trionara Thermal Recorder with 3 Traces
- Touch Screen
- Masimo Rainbow SET®
- Cardiac Output
- Dual display (Dual Processor Motherboard)
- Dual display, Slave monitor (Single Processor Mother board)
- Wireless communication (Dual Processor Motherboard)





CLASSIFICATION Protection against electro Protection Mode of operation Harmful Liquid Proof Degr Safety of anesthetic mixtu							
Protection Mode of operation Harmful Liquid Proof Degr	shock			except Multi-gas, NIBP and			
Mode of operation Harmful Liquid Proof Degr		CSM/BFA	modules that are BF) (based on IEC 60601-1). brillator (Except BFA/CSM)			
		Continues	operation equipment				
salety of anestnetic mixtr		IPX1 Not suitab	le for use in the prese	nce of a flammable anaesthetic			
			ith air or with oxygen				
General		T(T/15D_0		500 12.1%			
Display Waveforms		TFT/LED C					
Numeric Parameters		ECG, SPO2, IBP1, IBP2, RESP/GAS,EEG (Freezable), C.O. HR,PVCs,ST,SPO2, PR, NIBP (SYS, DIA, MAP), IBP1(SYS,DIA, MAP), IBP2(SYS,DIA, MAP), RR, T1, T2, DT, EtCO2, FICO2, AWRR, EtN2O, FIN2O, EtO2, FIO2, EtAA, FIAA, CSI/BFI, BS%, EMG%, SQI%, C.O, Alarm					
Operation Method		Limits. Membrane/Keys and rotary knob					
AC Power		Touch Screen 100 - 240 VAC, 50/60 Hz , lp: 0.9 – 0.4 A					
MotherBoard		Single Processor MB for normal application (Z2 Board)					
		Dual Proce	ssors MB for advanced	application (STM Board)			
ECG							
Lead & Wire Options Selectable: 3 ,5 or 12 Lead	s		Selectable: 3 ,5 or 10	0 Wires			
3 ECG Leads 1, 11, 111			3 Lead wires ECG Ca				
5 Leads ECG: I,II,III,V,aVR,			5 Lead wires ECG Ca				
12 Leads ECG : I,II,III,V,aVI Dynamic Range	R,aVF,aVL ,C	2, C3, C4, C5. C6	10 Lead wires ECG C Lead Off Current	able < 90 nA			
Gain	4, 2, 1, 1/3	2, 1/4, Auto	Calibration	1mV, 0.5 sec			
Filters	"MONITO "NORMAL		0.5 - 24 Hz 0.5 - 40 Hz				
	"EXTENDE		0.05-100 Hz				
CMRR Internal Noise	> 98 dB < 30 µV R	ті	•				
Input Impedance	> 5 MΩ						
QRS Detection	Duration Amplitude	2	40 to 120 msec 0.25 to 5 mV	for Adult/Pediatric			
	Ampiltude		0.25 to 5 mV	for Neonate			
Heart Rate Range	15 - 300 B		for adult/Pediatric				
Accuracy	15 - 350 B		for neonate				
Accuracy Tall T-Wave	±1% or 2 Reject up	to 1.2 mV Amp.					
Pacer Detection/Rejection	Duration Amp		0.1 - 2 msec ±2 to ± 700 mV (W	ithout over/undershoot)			
		m heart rate count					
		into ECG to display					
	Ineffective pace rejection HR:0, Pace: 60 HR:60, Pace: 60						
	HR:30, Pace:80						
Protection	Beside rejection of atrial paces preceed ventricular paces by 150 or 250 ms Defibrillator and Electrosurgery						
ANALOG OUTPUT							
Signals Maximum delay		ECG ≤30 ms					
Output range		± 5 V 1000 (1V/mV)					
Signal gain Gain accuracy		± 20 mV					
Maximum offset ECG bandwidth		± 50 mV "MONITOR"	0.5 - 24 Hz				
		"NORMAL"	0.5 - 40 Hz				
Pacemaker pulses		"EXTENDED" Amplitude:	0.05-100 Hz 5 V (nominal)				
ECG range		Duration: -5 to 5 mV	5 ms				
Output impedance		249 Ω ± 5%					
Data rate		400 samples/sec					
ARRHYTHMIA A	NALYS						
-			RUN, AIVR, COUPLET, S, FREQUENT PVCs	BIGEMINY, TRIGEMINY, TACHY,			
Туре				d for recognition of dominant			
Type Learning							
Learning Method		Real time arrhythr	nia detection with inn				
Learning		Real time arrhythr		ovative feature. event (waveform and Parameters)			
Learning Method Memory ST ANALYSIS Display resolution		Real time arrhythr Capability of storin 0.01 mV					
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Alarm Range		Real time arrhythr Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv	ng the latest 150 ARR e	event (waveform and Parameters)			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range		Real time arrhythr Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv		event (waveform and Parameters)			
Learning Memory ST ANALYSIS Display resolution Measurement Range Alarm Range Features Update period		Real time arrhythr Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv User Adjustable Is	ng the latest 150 ARR e	event (waveform and Parameters)			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Alarm Range Features	D+ Module	Real time arrhythr Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv User Adjustable Is	ng the latest 150 ARR e	event (waveform and Parameters)			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method	D+ Module	Real time arrhythr Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric	ng the latest 150 ARR e	event (waveform and Parameters)			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Alarm Range Features Update period NIBP SAADAT Module & CAS N	D+ Module	Real time arrhythr Capability of storie 0.01 mV -2mv to +2mv -2mv to +2mv User Adjustable is 5 Sec. Oscillometric Manual/Automati	ng the latest 150 ARR e	avent (waveform and Parameters) trending of ST values			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement time Measurement time Measurement Range		Real time arrhythr Capability of storiu 0.01 mV -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 se (excludi	ng the latest 150 ARR e pelectric and ST point c/Stat ng cuff pressurization	avent (waveform and Parameters) trending of ST values time)			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Alarm Range Features Update period NIBP SAADAT Module & CAS N Measurement mode Measurement time Measurement Range Adult SYS 30 ° 2 DIA 15 ° 2 DIA 15 ° 2	55 mmHg 20 mmHg	Real time arrhyth Capability of stori 0.01 mV -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi Neonate SYS DIA	ng the latest 150 ARR e belectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg	trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg			
Learning Method Memory ST ANAL YSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement time Measurement time Measurement time Adult SYS 30 ° 2: DIA 15 ° 2: MAP 20 ° 2:	55 mmHg 20 mmHg 35 mmHg	Real time arrhythr Capability of stori 2001 mV -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi Neonate SYS DIA MAP	ng the latest 150 ARR e pelectric and ST point s/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Alarm Range Features Update period NIBP SAADAT Module & CAS N Measurement mode Measurement time Measurement Range Adult SYS 30 ° 2 DIA 15 ° 2 DIA 15 ° 2	55 mmHg 20 mmHg 35 mmHg	Real time arrhyth Capability of stori 0.01 mV -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi Neonate SYS DIA	ng the latest 150 ARR e pelectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg e	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement method Measurement Range Adult SYS 30 ~ 2 DIA 15 ~ 2 MAP 20 ~ 2 Pressure Transducer accu	55 mmHg 20 mmHg 35 mmHg	Real time arrhythr Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi Neonate SYS DIA MAP +13 mmHg full rang	ng the latest 150 ARR e pelectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg e	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement time Measurement time Meas	55 mmHg 20 mmHg 35 mmHg racy	Real time arrhythn Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi Neonate SYS DIA MAP ±3 mmHg full rang Adult : 150 mmHg 500 Records	ng the latest 150 ARR e pelectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg e	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg			
Learning Method Memory ST ANAL YSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement time Measurement Range Adult SYS IDIA IS~2 MAP 20~2 Pressure Transducer accu Initial Inflation Target Memory SpO2 (Masimo Rai Spo2 Parameters	55 mmHg 20 mmHg 35 mmHg racy inbow S Spo2,PI,F	Real time arrhyth Capability of storing 0.01 mV -2mv to +2mv -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Ooscillometric Manual/Automati 20-25 sec (excludi) Neonate SYS DIA MAP MaP dull : 150 mmHg 500 Records et MR	ng the latest 150 ARR of belectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg cuff pressurization 90 ~ 135 mmHg 20 ~ 125 mmHg	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement mode Measurement time Measurement time Measurement time Measurement time Measurement time Measurement time Measurement mode Measurement mode Measurement time Measurement time Sys 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°	55 mmHg 20 mmHg 35 mmHg racy nbow S \$po2,PI,F 2 Wavele	Real time arrhythn Capability of storir 0.01 mV -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi Neonate SYS DIA MAP ±3 mmHg full range Adult : 150 mmHg full range S00 Records	ng the latest 150 ARR e belectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg re r y Pediatric: 150mr	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg			
Learning Method Memory ST ANAL YSIS Display resolution Measurement Range Features Update period Alarm Range Features Update period SADAT Module & CAS N Measurement method Measurement time Measurement Range Adult SYS 30~2 DIA IS~2 MAP 20~2 Pressure Transducer accu Initial Inflation Target Memory SpO2 (Masimo Rai Spo2 Parameters Method Spo2 Rainbow parameters Method Rainbow	55 mmHg 20 mmHg 35 mmHg racy spo2,PI,F 2 Wavele 5 SpO2,PI,F 7+Wavel	Real time arrhythn Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi 20-25 sec (excludi 20	rg the latest 150 ARR e belectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg te te te te VI	vent (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg mHg, Neonate: 85 mmHg			
Learning Method Memory ST ANALYSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS N Measurement method Measurement method Measurement time Measurement time Measurement Range Adult SYS 30 ~ 2 DIA 15 ~ 2 DI	55 mmHg 20 mmHg 35 mmHg racy mbow S Spo2,PI,F 2 Wavele SpOC, Sp	Real time arrhythn Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi 20-25 sec (excludi 20	g the latest 150 ARR of belectric and ST point c/Stat g cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg c peliatric: 150mr VI d Range 0 ~ 100 %	event (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg			
Learning Method Memory ST ANAL YSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS M Measurement method Measurement time Measurement Range Adult SYS 30 ~ 2 DIA 15 ~ 2 MAP 20 ~ 2 Pressure Transducer accu Initial Inflation Target Memory SpO2 (Masimo Rai Spo2 Parameters Method Sinbow	55 mmHg 20 mmHg 35 mmHg racy Spo2,PI,F 2 Wavele SpO2, Sp 7+Wavel Paramet SpO2 SpMet	Real time arrhythn Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi 20-25 sec (excludi 20	ng the latest 150 ARR of belectric and ST point sc/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg c c c c sc c sc c sc c sc c sc c sc c	vent (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg mHg, Neonate: 85 mmHg Resolution 1 % 0.1 %			
Learning Method Memory ST ANAL YSIS Display resolution Measurement Range Features Update period NIBP SAADAT Module & CAS M Measurement method Measurement time Measurement Range Adult SYS 30 ~ 2 DIA 15 ~ 2 MAP 20 ~ 2 Pressure Transducer accu Initial Inflation Target Memory SpO2 (Masimo Rai Spo2 Parameters Method Sinbow	55 mmHg 20 mmHg 35 mmHg racy Nbow S Spo2,PI,F 2 Wavele SpO2,Sp 7+Wavel SpO2 SpMet SpO2 SpHb	Real time arrhythn Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi 20-25 sec (excludi 20	g the latest 150 ARR e belectric and ST point c/Stat g cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg 20 ~ 125 mmHg w Pediatric: 150mr VI d Range 0 ~ 100 % 0 ~ 99.9 % 0 ~ 92.0 g/dL	vent (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg MAP 8 MAP 10 ~ 230mmHg MAP 10 ~ 1% 0.1 % 0.1 % 0.1 % 0.1 % 0.1 g/dL			
Learning Method Memory ST ANAL YSIS Display resolution Measurement Range Features Update period Alarm Range Features Update period SADAT Module & CAS N Measurement method Measurement time Measurement Range Adult SYS 30~2 DIA IS~2 MAP 20~2 Pressure Transducer accu Initial Inflation Target Memory SpO2 (Masimo Rai Spo2 Parameters Method Spo2 Rainbow parameters Method Rainbow	55 mmHg 20 mmHg 35 mmHg racy spo2,PI,F 2 Wavele SpOC, Sp 7+Wavel SpO2 SpMet SpO2	Real time arrhythn Capability of storin 0.01 mV -2mv to +2mv -2mv to +2mv -2mv to +2mv User Adjustable Is 5 Sec. Oscillometric Manual/Automati 20-25 sec (excludi 20-25 sec (excludi 20	g the latest 150 ARR e belectric and ST point c/Stat ng cuff pressurization 30 ~ 135 mmHg 15 ~ 110 mmHg 20 ~ 125 mmHg e p Pediatric: 150mr VI 1 Range 0 − 100 % 0 − 99 %	vent (waveform and Parameters) trending of ST values time) Pediatric SYS 30 ~ 240mmHg DIA 15 ~ 220 mmHg MAP 20 ~ 230mmHg mHg, Neonate: 85 mmHg Resolution 1 % 0.1 % 1 %			

Accuracy (Masimo S	pO2/RainBow)					
Oxygen Saturation no motion condition	¢	Adult /r	Pediatric		+2% (500	2 70 ~ 100%)
no motion condition	5	Neonat				2 70 100%)
motion conditions			.c Pediatric/Neonat	te		2 70 ~ 100%)
low perfusion condit	ions	Adult/P	ediatric/Neonat	te	±2% (SPO	2 70 ~ 100%)
Pulse Rate	c	Adult/0	ediatric/Neonat	P	±3bpm	(DR 25 ~ 240)
motion conditions	5		ediatric/Neonat			(PR 25 ~ 240) (PR 25 ~ 240)
low perfusion condit			ediatric/Neonat		±5bpm	(PR 25 ~ 240)
Carboxyhemoglobin Carboxyhemoglobin		Adult/	Pediatric		±3% (1 -	40)
Methemoglobin Sati		Addity	redititie		1370 (1-	40)
Methemoglobin Satu	iration	Adult/P	ediatric/Neonat	te	±1% (1-	15)
Total Hemoglobin Total Hemoglobin		Adult/0	ediatric		±1a/dL (9	– 17) g/dL
rotal Hemoglobin		Adult/P	eulatric		±1g/dL (8	– 17) g/dL
TEMPERATURE	(2 Channe	l)				
Probe Type			Compatible			
Range Accuracy		0 - 50 ° ± 0.2 °C				
locaracy		1 0.2	-			
RESPIRATION						
Method		Impeda				
Base Resistance Dynamic Range			250 -1250 Ohm 0.2 - 2 Ohm			
Breath Rate Range		0 - 253				
Accuracy		±2% or	2 BrPM			
BP						
Number of Channels		1				
Measurement Range Pressure Filter	:		4/MAP: -50 ~ 30 Hz,22Hz selecta			
Press Sensor Sensitiv		5 μV / \	/ / mmHg			
Press Sensor Impeda	nce		500 Ohm			
Resolution Accuracy		1 mmH 2 % or 2	<u>g</u> 2mmHg (each or	ne is greater)	without tr	ansducer
Multi-gas, Mai RMA CO2	nstream (N co		EDEN AB)		
RMA CO2 RMA AX+		2 2, N2O, primary a	nd secondary ag	gents (HAL, IS	O, ENF, SE	V, DES)
P44 Standard for pro						
Mode of operation		CONTIN	NUOUS OPERATI	ON		
Accuracy - standard						
The following accura	cy specification	ns are valid for dry Range	single gases at			l hPa
Gas CO2		0 to 15 vol%		Accuracy ±(0.2 vol	% +2% of r	eading)
N2O		0 to 100 vol%			+2% of rea	
HAL,ISO,ENF SEV		0 to 8 vol% 0 to 10 vol%		±(0.15 vo	ol% +5% of	
DES				+(0.15 vc		
		0 to 22 vol%		±(0.15 vo ±(0.15 vo	ol% +5% of ol% +5% of	
Multi-gas Sid	estream (N		EDEN AB	±(0.15 vo		
Multi-gas, Sid		IASIMO SW	EDEN AB)	±(0.15 vo		
ISA CO2 ISA AX+	CO2, CO2 w CO2,O2, N2	IASIMO SW vaveform 20, primary and se	econdary Agents	±(0.15 vo	01% +5% of NF, SEV, DE	reading)
ISA CO2 ISA AX+ ISA OR+	CO2, CO2 w CO2,O2, N2	IASIMO SW	econdary Agents	±(0.15 vc)	NF, SEV, DE	reading) ES) ES)
ISA CO2 ISA AX+	CO2, CO2 w CO2,O2, N2 CO2,O2, N2	IASIMO SW vaveform 20, primary and se	econdary Agents	±(0.15 vc)	01% +5% of NF, SEV, DE	reading) ES) ES)
ISA CO2 ISA AX+ ISA OR+ Mode of operation Accuracy standard The following accura	CO2, CO2 w CO2,O2, N2 CO2,O2, N2 conditions cy specification	ASIMO SW vaveform 20, primary and se 20, primary and se	econdary Agents econdary Agents o drift for dry sir	(HAL, ISO, EM (HAL, ISO, EM (HAL, ISO, EM CONTINU	NF, SEV, DE NF, SEV, DE NF, SEV, DE JOUS OPEF	reading) ES) ES) RATION
ISA CO2 ISA AX+ ISA OR+ Mode of operation Accuracy standard The following accura Gas	CO2, CO2 w CO2,O2, N2 CO2,O2, N2 CO2,O2, N2 conditions cy specification Range	ASIMO SW vaveform 20, primary and se 20, primary and se	econdary Agents econdary Agents o drift for dry sir Accuracy	(HAL, ISO, EP (HAL, ISO, EP (HAL, ISO, EP (HAL, ISO, ET (HAL, ISO, ET) (HAL, ISO,	NF, SEV, DE NF, SEV, DE NF, SEV, DE JOUS OPEF	reading) ES) ES) RATION
ISA CO2 ISA AX+ ISA OR+ Mode of operation Accuracy standard The following accura Gas CO2	CO2, CO2 w CO2,O2, N2 CO2,O2, N2 CO2,O2, N2 conditions cy specification Range 0 to15 vol% 15 to 25 vol%	IASIMO SW vaveform 20, primary and se 20, primary and se ns are valid with n	econdary Agents econdary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified	(HAL, ISO, EP (HAL, ISO, EP (HAL, ISO, EP (HAL, ISO, ET CONTINU agle gases at 2 6 of reading)	NF, SEV, DE NF, SEV, DE NF, SEV, DE JOUS OPEF	reading) ES) ES) RATION
ISA CO2 ISA AX+ ISA OR+ Mode of operation Accuracy standard The following accura Gas	CO2, CO2 w CO2, O2, N2 CO2, O2, N2 CO2, O2, N2 conditions cy specification Range 0 to15 vol% 15 to 25 vol% 0 to 100 vol%	IASIMO SW vaveform 20, primary and se 20, primary and se ns are valid with n	econdary Agents econdary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified ±(2 vol% +2% c	(HAL, ISO, EP (HAL, ISO, EP (HAL, ISO, EP (HAL, ISO, ET (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU) (CONTINU)	NF, SEV, DE NF, SEV, DE NF, SEV, DE JOUS OPEF	reading) ES) ES) RATION
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SA CO2 SA AX+ SA AX+ Mode of operation Accuracy standard fhe following accura Gas N2O HAL, ENF, ISO SEV DES D22	CO2, CO2 w CO2, CO2 w CO2,O2, N2 Conditions cy specification Range 0 to15 vol% 15 to 25 vol% 8 to 25 vol% 0 to 100 vol% 10 to 25 vol% 0 to 10 vol% 10 to 25 vol% 0 to 22 vol% 0 to 22 vol%	AASIMO SW vaveform 20, primary and se 20, primary a	condary Agents condary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified ±(2 vol% +2% Unspecified ±(0.15 vol%+5 Unspecified ±(0.15 vol%+5	±(0.15 vc (HAL, ISO, Ef (HAL, ISO, Ef (HAL, ISO, Ef (CONTINL vc CONTINL vc CONTINL vc Conting) % of reading) % of reading) % of reading % of reading	NF, SEV, DE NF, SEV, DE JOUS OPEF 22 ± 5 °C a	reading) ES) ES) RATION
SA CO2 SA AX+ SA AX+ Mode of operation Accuracy standard here following accura Gas CO2 N2O HAL, ENF, ISO SEV DES DES Cardiac Output	C02, C02, W2 C02, C02, N2 C02, O2, N2 Conditions C010 O t015 vol% O t010 vol%	AASIMO SW vaveform 20, primary and se 20, primary and se 20, primary and se is are valid with n is are valid with n is 6 6 6 6 6	condary Agents condary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified ±(0.15 vol%+5) Unspecified ±(0.15 vol%+5) Unspecified ±(0.15 vol%+5) Unspecified ±(0.15 vol%+2) Unspecified	±(0.15 vc (HAL, ISO, Ef (HAL, ISO, Ef (HAL, ISO, Ef CONTINL ngle gases at 6 of reading) % of reading. % of reading. % of reading.	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	reading) ES) ES) RATION
SA CO2 SA AX+ SA AX+ Mode of operation Accuracy standard The following accura Gas CO2 CO2 HAL, ENF, ISO SEV DES Cardiac Output Method : Ri	C02, C02 w C02, C02 w2 C02, O2, N2 C02, O2, N2 conditions cyspecification Range 0 to15 vol% 15 to 25 vol% 0 to 10 vol% 10 to 25 vol% 10 to 10 vol% 10 to 25 vol%	AASIMO SW vaveform 20, primary and se 20, primary and se 20, primary and se is are valid with n is are valid with n is 6 6 6 6 6	condary Agents condary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified ±(0.15 vol% +2% Unspecified ±(0.15 vol% +5% Unspecified ±(0.15 vol% +5% Unspecified ±(1.05 vol% +2% c) Range:	±(0.15 vc (HAL, ISO, Ef (HAL, ISO, Ef (HAL, ISO, Ef (AL, ISO, Ef CONTINL ngle gases at : CONTINL sgle	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	reading) ES) ES) RATION
SA CO2 SA AX+ SA AX+ Mode of operation Accuracy standard The following accura Gas CO2 N2O HAL, ENF, ISO SEV DES D2 Cardiac Output Method : Ri Resolution : 0	C02, C02 w C02, C02 w2 C02, O2, N2 C02, O2, N2 conditions coy specification 15 to 25 wolfs 0 to 15 wolfs 15 to 25 wolfs 16 to 20 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 100 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 100 wolfs 11 to 25 wolfs 12 to 25 wolfs 13 to 25 wolfs 14 theart Ther 01/min	AASIMO SW vaveform 20, primary and se 20, primary and se 20, primary and se is are valid with n is are valid with n is 6 6 6 6 6	condary Agents condary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified ±(0.15 vol%+5) Unspecified ±(0.15 vol%+5) Unspecified ±(0.15 vol%+5) Unspecified ±(0.15 vol%+2) Unspecified	±(0.15 vc (HAL, ISO, Ef (HAL, ISO, Ef (HAL, ISO, Ef (AL, ISO, Ef CONTINL ngle gases at : CONTINL sgle	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	reading) ES) ES) RATION
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SA CO2 SA AX+ SA AX+ Mode of operation Accuracy standard The following accura Gas CO2 N2O HAL, ENF, ISO SEV DES Cardiac Output Method : Ri Resolution : 0 Thermal Recor	C02, C02 w C02, C02 w2 C02, O2, N2 C02, O2, N2 conditions coy specification 15 to 25 wolfs 0 to 15 wolfs 15 to 25 wolfs 16 to 20 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 100 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 25 wolfs 10 to 100 wolfs 11 to 25 wolfs 12 to 25 wolfs 13 to 25 wolfs 14 theart Ther 01/min	AASIMO SW vaveform 20, primary and se 20, primary and se 20, primary and se sare valid with n 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 7 8 7 8	condary Agents condary Agents o drift for dry sir Accuracy ±(0.2 vol% +2% Unspecified ±(0.15 vol% +2% Unspecified ±(0.15 vol% +5% Unspecified ±(0.15 vol% +5% Unspecified ±(1.05 vol% +2% c) Range:	±(0.15 vc) (HAL, ISO, EF (HAL, ISO, EF (HAL, ISO, EF (CONTINU- ngle gases at & of reading) % of reading) % of reading, % of reading, 0.5-18 ty : ±3%	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	reading) (5) (5) (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7
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SA CO2 SA AX+ SA AX+ Mode of operation Mode of operation Accuracy standard The following accura Gas Sacuracy standard CO2 N2O HAL, ENF, ISO SEV DES DES DES Cardiac Output Method : Rit Resolution 0 Thermal Recor Channel : U Paper Size : 5 Sources ALARM Sources : TREND DSUG CALCUL/ To calculate the dose ALARM Sources : TREND Sources : Trend Time Interval Resolution INPUT/OUTPU' Network VGA Connection Internal Batter Battery Type Lead Acid 12 V, 2.8 A Lithium Polymer: 11. Physical Specific Dimension (Cm) Weight (approximate	C02, C02, w C02, C02, W2 C02, O2, N2 C02, O2, N2 C02, O2, W2 I5 to 25 vol% J5 to 25 vol% O to 100 vol% O to 25 vol% O to 100 vol% O to 22 vol% O to 100 vol% V H 11/4, 3AH Cocon Cocon M V W W1 W1 W1 <tr td=""> <tr td=""></tr></tr>	ASIMO SW vaveform 20, primary and se 20, primary an	o drift for dry Agents condary Agents decondary Agents (accuracy 4(0.2 vol%+2%) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(0.15 vol%+5) Unspecified 4(1 vol%+2% of Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Range: Ra	ttn RJ45 Inter aliable in Sing (AAUS), EtCo (AAUS), EtCO	NF, SEV, DD NF, SEV, DD NF, SEV, DE NOUS OPEF 22 ± 5 °C a))) 25 mm/sec Alarms, Li) Alarms, Li NA, MAP), 2, FICO2, AV iAA(ISO, D face gle Process Dual Proc Sport: -25 t	reading) (S) (S) (S) (S) (S) (S) (S) (S) (S) (







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