BeneVision N17/N15/N12

Patient monitor

Physical Specifications

Weight Standard configuration, excluding modules,

recorder, battery and accessories.

N17: 7.3 kg (16.1 lbs) 5.4 kg (11.9 lbs) N15: N12: 4.1 kg (9.1 lbs)

Size

N17: 466 x 355 x 210 mm 396 x 313 x 193 mm N15: N12: 313 x 290 x 161 mm

Display

Medical-grade color TFT LCD, capacitive touch Type

screen, support multi-touch operation.

178° viewing angle

Screen & Resolution

N17: 18.5-inch, 1920 x 1080 pixels (FHD) 15.6-inch, 1920 x 1080 pixels (FHD) N15: 12.1-inch, 1280 x 800 pixels (WXGA) N12

N17: Up to 12 waveforms Waveforms

N15: Up to 10 waveforms N12: Up to 8 waveforms

ECG

Meet standards of IEC 60601-2-27 and IEC 60601-2-25.

Lead Sets Automatic 3/5/6/12 - lead recognition

3-lead: L. II. III

5-lead: I, II, III, aVR, aVL, aVF, V 6-lead: I, II, III, aVR, aVL, aVF, Va, Vb 12-lead: I, II, III, aVR, aVL, aVF, V1 to V6

Sweep Speed 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s Gain Selection x 0.125, x 0.25, x 0.5, x 1, x 2, x 4, auto

Waveform format Standard, Cabrera

Input Signal Range ±8 mV (p-p)

Electrode Offset Potential Tolerance ± 500 mV

Bandwidth

0.05 to 150 Hz Diagnostic Mode: Monitor Mode: 0.5 to 40 Hz Surgical Mode: 1 to 20 Hz ST Mode: 0.05 to 40 Hz

High Freq Cut-off (for 12-lead ECG analysis):

350 Hz, 150 Hz, 35 Hz, 20 Hz selectable

CMRR > 90 dB Diagnostic:

Monitor, Surgical, ST mode:

> 105 dB (with notch filter on)

Pace detection

Amplitude: \pm 2 mV to \pm 700 mV

Width: 0.1 to 2 ms

Rise time: 10 to 100 μs (without overshoot) **Defibrillator Protection** Withstand 5000VAC (360J) defibrillation

Defib. Recovery Time ≤ 5 seconds ESU recovery time < 10 s

Provides Glasgow resting 12-lead ECG algorithm.

Provides Mindray Multi(4)-lead ECG monitoring analysis algorithm. (* These ECG specifications are from MPM Platinum module.)

Heart Rate

Measurement Range

Adult: 15 to 300 bpm Pediatric/Neonate: 15 to 350 bpm

 \pm 1 bpm or \pm 1%, whichever is greater. Accuracy

Resolution

Arrhythmia Analysis

Patient Adult/Pediatric/Neonate.

Monitored Arrhythmias Asystole, VFib/VTac, VTac, Vent. Brady, Extreme

Tachy, Extreme Brady, Vrhythm, PVCs/min, Pauses/min, Couplet, Bigeminy, Trigeminy, R on T, Run PVCs, PVC, Tachy, Brady, Missed Beats, PNP, PNC, Multif. PVC, Nonsus. VTac, Pause, Irr. Rhythm,

AFib.

ST Segment Analysis

Patient Adult/Pediatric. - 2.0 to + 2.0 mV (RTI) Range

 \pm 0.02 mV or \pm 10%, whichever is greater Accuracy

(-0.8 to + 0.8 mV)

Resolution 0.01 mV



QT Analysis

Patient Adult/Pediatric/Neonate.

Parameters QT, QTc, ΔQTc

OTc Formula Bazett, Fridericia, Framingham, or Hodges

Range

OT/OTc: 200 to 800 ms QT-HR: Adult: 15 to 150 bpm

Pediatric/Neonate: 15 to 180 bpm

OT Accuracy + 30 ms

Resolution QT 4 ms; QTc 1 ms

Respiration

Range 0 to 200 bpm

Resolution 1 rpm

Apnea Alarm Time 10, 15, 20, 25, 30, 35, 40 sec Accuracy

0 - 120 rpm: $\pm 1 \text{ rpm}$ 121 - 200 rpm: ±2 rpm

I, II, or auto (default: lead II) Lead

Pulse Oximetry

Meet standards of ISO 80601-2-61.

Module Mindray, Masimo, Nellcor

0 to 100 % Range Resolution

Accuracy Mindray/Nellcor:

± 2 % (70 to 100%, Adult/Pediatric:) ± 3 % (70 to 100%, Neonate)

Unspecified (0 to 69%)

 $\pm\,2\,\%$ (70 to 100%, Adult/Pediatric, non-motion) Masimo:

± 3 % (70 to 100%, Neonate, non-motion)

± 3 % (70 to 100%, motion) Unspecified (0 to 69%)

Perfusion indicator (PI) Yes, for Mindray/Masimo SpO₂

Pitch Tone Yes

Dual-SpO₂ Yes, SpO₂, SpO₂b, ΔSpO₂

Pulse Rate Range

Mindray/Nellcor: 20 to 300 bpm 25 to 240 bpm Masimo:

Pulse Rate Accuracy

Mindray: ± 3 bpm (20 - 300 bpm) Nellcor: ± 3 bpm (20 - 250 bpm) ± 3 bpm (non-motion) Masimo: ± 5 bpm (motion)

PR Refresh Rate 1 sec

Temperature

Meet standard of ISO 80601-2-56.

Method Thermal resistance Channels Up to 8 channels Units of Measure Selectable °C or °F Range 0 to 50 °C / 32 to 122 °F

Resolution 0.1 °C, 0.1°F

 \pm 0.1 °C or \pm 0.2 °F (without probe) Accuracy Refresh Rate

1 sec Genius [™] 2 Tympanic Thermometer

Measurement Range 33 to 42 °C / 91.4 to 107.6 °F

Calibrated Accuracy ± 0.1 °C (environment temperature 25 °C,

target temperature 36.7 to 38.9 °C) ± 0.2 °C (environment temperature 16 °C,

target temperature 33 to 42 °C) 0.1 °C, 0.1°F

Resolution Response Time < 2 sec **Non-Invasive Blood Pressure**

Meet standards of ISO 80601-2-30. Method Oscillometry

Modes Manual, Auto, STAT, Sequence mmHg, kPa (user-selectable) Units of Measure

1 mmHa Resolution

Systolic range

Adult: 25 to 290 mmHg Pediatric: 25 to 240 mmHg Neonate: 25 to 140 mmHg

Diastolic range

10 to 250 mmHg Adult: Pediatric: 10 to 200 mmHg 10 to 115 mmHg Neonate:

Mean range

Adult: 15 to 260 mmHg 77 to 99 mmHg: ± 10% of reading Pediatric: 15 to 215 mmHg 100 to 150 mmHg: \pm (3 mmHg+8% of reading) 15 to 125 mmHg O2 Accuracy Neonate: 0 to 25 %: Accuracy ±1% 25.1 to 80 %: ±2 % Max Mean Error: ±5 mmHg Max Standard Deviation: 8 mmHg 80.1 to 100 %±3 % Cuff Deflation Technique Step bleed Resolution Initial Cuff Inflation etCO₂: 1 mmHa 80 to 280 mmHg (default: 160 mmHg) Adult: O_2 (optional): 1 % Pediatric: 80 to 210 mmHg (default: 140 mmHg) Sample Flow Rate Neonate: 60 to 140 mmHg (default: 90 mmHg) Adult/Pediatric: 120 ml/min (with or without O₂ monitoring) **Over Pressure Protection** Neonate: 70 ml/min or 90 ml/min, selectable Adult/ Pediatric: 90 ml/min (with O₂ monitoring) $297 \pm 3 \, mmHa$ Sample Flow Rate Tolerance Neonate: 147 ± 3 mmHg Max Measurement time ± 15 ml/min or ± 15 %, whichever is greater. Adult/Pediatric: Warm-up Time 90 sec (maximum), 20 sec (typically) 180 sec Measured with a neonatal watertrap and 2.5-meter neonatal sampling line, or Neonate: 90 sec **Assisting Venous Puncture Yes** an adult watertrap and a 2.5-meter adult sampling line: 30 to 300 bpm Pulse Rate Range Rise Time Pulse Rate Accuracy \pm 3 bpm or \pm 3 %, whichever is greater etCO₂: ≤ 250 ms @ 70 ml/min (Neonate watertrap) ≤ 250 ms @ 90 ml/min (Neonate watertrap) Meet standard of IEC 60601-2-34. ≤ 300 ms @ 120 ml/min (Adult watertrap) Up to 8 channels ≤ 800 ms @ 90 ml/min (Neonate watertrap) Number O2(optional): ≤ 750 ms @ 120 ml/min (Adult watertrap) Measurement Range -50 to 360 mmHg Resolution 1 mmHg Sampling Delay Time ± 1 mmHg or ±2 %, whichever is greater (excluding ≤ 5.0 sec @ 70 ml/min (Neonate watertrap) Accuracy etCO₂: sensor error) ≤ 4.5 sec @ 90 ml/min (Neonate watertrap) 5 μV/V/mmHg ≤ 5.0 sec @ 120 ml/min (Adult watertrap) Sensitivity Impedance Range 300 to 3000 Ω O_2 (optional): ≤ 4.5 sec @ 90 ml/min (Neonate watertrap) PPV Range 0 to 50 % ≤ 5.0 sec @ 120 ml/min (Adult watertrap) PAWP Yes awRR Range 0 to 150 rpm ICP measurement Support awRR Accuracy Support waveforms overlapping. 0 to 60 rpm: ±1 rpm Pulse Rate Range 25 to 350 bpm 61 to 150 rpm: ±2 rpm **Pulse Rate Accuracy** ±1 bpm or ±1 %, whichever is greater Apnea Time 10, 15, 20, 25, 30, 35, 40 sec **Cardiac Output** Provide VCO₂, VO₂, MVCO₂, MVO₂, EE, RQ parameters, when monitoring with RM Method Thermodilution module. Oridion Microstream CO₂ Measurement Range 0.1 - 20 L/min Resolution 0.1 L/min Measurement Range 0 to 99 mmHg Accuracy ±0.1 L/min or ±5%, whichever is greater 1 mmHg Resolution TB Range 23 to 43 °C / 73.4 to 109.4 °F Accuracy ± 0.1 °C (without sensor) 0 to 38 mmHg: TB. TI Accuracy ±2 mmHa \pm 5 % + 0.08 % of the reading – 38 mmHg 39 to 99 mmHg: TB. TI Resolution 0.1°C **PiCCO** Sample Flow Rate 50 ^{-7.5}+15 ml/min **Parameters** Measurement Range Coefficient of Variation 30 sec (typical) Start-up Time CCO 0.25 to 25.0 L/min ≤ 2% Response Time 2.9 s (typical) awRR Range 0 to 150 rpm C.O. 0.25 to 25.0 L/min < 2% GEDV 40 to 4800 ml ≤ 3% awRR Accuracy SV 1 to 250 ml ≤ 2% 0 to 70 rpm: ±1 rpm **EVLW** 10 to 5000 ml 71 to 120 rpm: ≤ 6% ±2 rpm 50 to 6000 ml ≤ 3% 121 to 150 rpm: ±3 rpm (Coefficient of variation is measured using synthetic and/or database wave Apnea time 10, 15, 20, 25, 30, 35, 40 sec forms (laboratory testing.) Coefficient of variation= SD/mean error.) Capnostat Mainstream CO₂ TB Range 23 to 43 °C / 73.4 to 109.4 °F Measurement Range 0 to 150 mmHg TB, TI Accuracy ± 0.1 °C (without sensor) Resolution 1 mmHg TB, TI Resolution 0.1 °C Accuracy -50 to 300 mmHg 0 to 40 mmHg: pArt/pCVP Range ± 2mmHg pArt/pCVP Accuracy ± 5% of reading ± 1 mmHg or ± 2 %, whichever is greater 41 to 70 mmHg: ScvO₂ 71 to 100 mmHg: ±8% of reading Range 101 to 150 mmHg: \pm 10% of reading Accuracy ± 3% (50 to 80 %) Rise time < 60 msec awRR Range ICG 0 to 150 rpm Method Thoracic electrical bioimpediance (TEB) awRR Accuracy ±1 rpm $Provide\ VCO_2,\ MVCO_2,\ FeCO_2,\ SlopeCO_2,\ Vtalv,\ MValv,\ Vdaw,\ Vdaw,\ Vdaw/Vt,\ Vdalv,$ HR Range 40 to 200 bpm (ICG), accuracy ±2 bpm Vdalv/Vt, Vdphy, Vd/Vt, when monitoring with RM module. C.O. Range 1.0 to 15 L/min 5 to 250 ml **Anesthesia Gases** SV Range Provides Monitoring Parameters ACI, VI, PEP, LVET, TFI, TFC, HR, C.O., C.I., SV, SVI, Meet standard of ISO 80601-2-55. SVR, SVRI, PVR, PVRI, LCW, LCWI, LVSW, LVSWI, STR, VEPT Sampling Rate **Continuous Cardiac Output Interface** Adult/pediatric: 200 ml/min Measured Parameter Consistent with CCO-related parameters outputted Neonate: 120 ml/min by Vigilance II®, Vigileo™, or EV1000 Sampling Rate Tolerance ± 10 ml/min or $\pm 10\%$, whichever is greater. CCO, CCI, C.O., C.I., SV, SVI, SVR, SVRI, RVEF, EDV, EDVI, Vigilance II: Sampling Delay Time < 4 sec ESV, ESVI, TB, SaO₂, VO₂, O₂EI, DO₂, ScvO₂, SvO₂, SQI Refresh Rate 1 sec Vigileo: CCO, CCI, SV, SVI, SVR, SVRI, ScvO₂, SvO₂ Warm-up Time 45 sec to warm-up status EV1000: CCO, CCI, CO, CI, SV, SVI, SVV, SVR, SVRI, GEF, CFI, 10 min to ready-to-measure status GEDV, ITBV, ITBI, EVLW, EVWI, PVPI Measurement Range Artema Sidestream CO₂ 0 to 30 % CO2: Meet standard of ISO 80601-2-55. N₂O: 0 to 100 % Measurement Range Des/Sev/Enf/Iso/Hal: etCO₂: 0 to 150 mmHg 0 to 30 % 0 to 100 % O_2 (optional): 0 to 100 % O2: awRR: CO₂ Accuracy 2 to 100 rpm

Resolution

CO2:

0.1 %

0 to 40 mmHg:

41 to 76 mmHg:

±2mmHg

± 5% of reading

N ₂ O:					
INOU.	1 %			Paw	± 3% of reading
	/Enf/Iso/Hal:			MVe/MVi	± 10% of reading
De3/36V/					5
	0.1 %			TVe/TVi	Adult/Pediatric: $\pm 10\%$ or ± 15 ml, whichever is
O ₂ :	1 %				greater.
awRR:	1 rpm				Infant: ±10% or ±6 ml, whichever is greater.
	Прш			DD.	
Full Accuracy				awRR:	±1 rpm (4 to 99 rpm)
Gases	Range (%F	REL) Accu	racy (%ABS)		±2 rpm (100 to 120 rpm)
CO ₂ :	0 to 1 %	± 0.1	%	Provide loops display.	• • •
CO ₂ .				' ' '	: DEED D
	1 to 5 %	± 0.2	%	Monitoring parameters	include PEEP, Pmean, PIP, Pplat, PEF, PIF, MVe, MVi, TVe,
	5 to 7 %	± 0.3	%	TVi, RR, I:E, FEV1.0, Comp	pl, RSBI, NIF, WOB, RAW.
	7 to 10 %	± 0.5		rSO ₂	,, ,,
				· · · ·	
	> 10 %	Not s	pecified	Patient	Adult/Pediatric/Neonate.
N ₂ O:	0 to 20 %	± 2 %	ń	Method	INVOS, NIRS (Near Infrared Spectroscopy)
1120.					
	20 to 100 °	% ± 3 %	o .	Number	Up to 4 channels
Des:	0 to 1 %	± 0.1	5 %	Measurement Range	15 to 95 %
	1 to 5 %	± 0.2	0/2	NMT	
	5 to 10 %	± 0.4	%	Meet the standard of IEC	C 60601-2-10
	10 to 15 %	± 0.6	%	Sensor Type	Acceleromyography sensor
	15 to 18 %			Stimulation Modes	ST, TOF, PTC, DBS3.2, DBS3.3
	> 18 %	Not s	pecified	Stimulation Current Ran	ige
Sev:	0 to 1 %	± 0.1	5 %		0 to 60 mA
5011				C+:I-+: C	
	1 to 5 %	± 0.2		Stimulation Current Acc	•
	5 to 8 %	± 0.4	%		± 5% or ±2 mA, whichever is greater.
	> 8 %	Not s	pecified	Stimulation Pulse Width	100,200 or 300µs,monophasic rectangle pulse
F (1) 11			•		
Enf/Iso/H	Hal: 0 to 1 %	± 0.1	5 %	Stimulation Pulse Width	Accuracy
	1 to 5 %	± 0.2	%		± 10 %
	> 5 %			May Output Voltage	300 V
_			pecified	Max. Output Voltage	300 V
O ₂ :	0 to 25 %	± 1 %	Ó	BISx/BISx4	
	25 to 80 %	±2%	ó	Meet standard of IEC 60	601-2-26.
	80 to 100 °C			Method	
	80 10 100	% ±3%	0		Bispectral Index
awRR:	2 to 60 rpr	m ±1rp	pm	Impedance Range	0 to 999 kΩ
	> 60 rpm		pecified	EEG Bandwidth	0.25 to 100 Hz
D: T:	> 00 l þilli	14003	peemea		
Rise Time				BIS Range	0 to 100 (BIS, BIS L, BIS R)
Sampling	g flow 120 ml/min, usi	ing the DRYLINE	E II ™ watertrap and a	SQI Range	0 to 100 % (SQI, SQI L, SQI R)
	2.5m sampling line,	3	•	ASYM	0 to 100%
CO_2/N_2O	O: ≤ 250 ms			DSA Trend	Yes
Iso/Hal/S	Sev/Des: ≤ 300 ms			EEG	
Enf:	≤ 350 ms			Meet standard of IEC 60	601 2 26
O ₂ :	≤ 600 ms			EEG Channels	Up to 4 channels
Sampling	a flow 200ml/min jusii	na DRYLINE II ™	watertrap and an adult	Montage Mode	Biopolar mode, referential mode
	•	9 5 2 12	rrater trap arra arra autr		
	mpling line:			Input Signal Range - 2 r	
CO ₂ / N ₂ O	O: ≤ 250 ms			Max. Input DC Offset	± 500 mV
Iso/Hal/S	Sev/Des: ≤ 300 ms			CMRR	≥ 100 dB @51 kΩ imbalance and 60 Hz
Enf:	≤ 350 ms			Noise Level	≤ 0.5 μV rms (1 Hz to 30 Hz)
O ₂ :	≤ 500 ms				
				Differential Input Imped	lance
Sampling Dolay				Differential Input Imped	
Sampling Delay	y Time				lance > 15 MΩ @10 Hz
,		ing the DRYLINE	E II ™ watertrap and a	Differential Input Imped Electrode Impedance	
Sampling	y Time g flow 120 ml/min, usi	ing the DRYLINE	E II ™ watertrap and a	Electrode Impedance	> 15 MΩ @10 Hz
Sampling neonatal	y Time .g flow 120 ml/min, usi ıl 2.5m sampling line,	ing the DRYLINE	EII^{TM} watertrap and a	Electrode Impedance Range 0 to	> 15 MΩ @10 Hz 9 90 kΩ
Sampling neonatal CO₂:	y Time g flow 120 ml/min, usi Il 2.5m sampling line, ≤ 4 sec	ing the DRYLINE	EII^TM watertrap and a	Electrode Impedance Range 0 to Accurancy	> 15 M Ω @10 Hz o 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater
Sampling neonatal	y Time .g flow 120 ml/min, usi ıl 2.5m sampling line,	ing the DRYLINE	E II ™ watertrap and a	Electrode Impedance Range 0 to	> 15 MΩ @10 Hz 9 90 kΩ
Sampling neonatal CO₂: N₂O:	y Time g flow 120 ml/min, usi Il 2.5m sampling line, \leq 4 sec \leq 4.2 sec	ing the DRYLINE	E II ™ watertrap and a	Electrode Impedance Range 0 to Accurancy Sampling Frequency	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz
Sampling neonatal CO ₂ : N ₂ O: O ₂ :	y Time g flow 120 ml/min, usi ll 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec		E II [™] watertrap and a	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz 0.5 to 110 Hz
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I	y Time g flow 120 ml/min, usi al 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec (Hal/Sev/Des: ≤ 4.4 sec		·	Electrode Impedance Range 0 to Accurancy Sampling Frequency	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I	y Time g flow 120 ml/min, usi al 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec (Hal/Sev/Des: ≤ 4.4 sec		·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/I Sampling	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi		E II ™ watertrap and a ¹ watertrap and an adult	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz 0.5 to 110 Hz
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/I Sampling 2.5m san	y Time g flow 120 ml/min, usi Il 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec 'Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi mpling line:		·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/I Sampling	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi		·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/I Sampling 2.5m san CO ₂ :	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec 'Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi mpling line: ≤ 4.2 sec		·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con	> 15 M Ω @10 Hz 90 k Ω \pm 1 k Ω or \pm 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/I Sampling 2.5m san CO ₂ : N ₂ O:	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec		·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range	> 15 MΩ @10 Hz 9 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA nbiM, TCM TOSCA or SenTec SDM monitor.
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ :	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec (Hal/Sev/Des: ≤ 4.4 sec) g flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec	: ng DRYLINE II ™	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA mbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ :	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec	: ng DRYLINE II ™	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range	> 15 MΩ @10 Hz 9 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA nbiM, TCM TOSCA or SenTec SDM monitor.
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/lso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/lso/H	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec	: ng DRYLINE II ™	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA mbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Apnea time	y Time g flow 120 ml/min, usi l 2.5m sampling line,	: ng DRYLINE II ™ !5,30,35,40 sec	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA mbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 %
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I Apnea time Provide MAC va	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec ig flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec 10,15,20,2 alue (support calibrate	: ng DRYLINE II ™ 15,30,35,40 sec ed by age).	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA mbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I Apnea time Provide MAC va	y Time g flow 120 ml/min, usi l 2.5m sampling line,	: ng DRYLINE II ™ 15,30,35,40 sec ed by age).	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA mbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 %
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/F Apnea time Provide MAC va	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec /Hal/Sev/Des: ≤ 4.4 sec ig flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec 10,15,20,2 alue (support calibrate	: ng DRYLINE II ™ 15,30,35,40 sec ed by age).	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA mbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Apnea time Provide MAC va Support two mi	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec 'Hal/Sev/Des: ≤ 4.4 sec g flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec 10,15,20,2 alue (support calibrate nixed gas identify and r	ng DRYLINE II ™ 15,30,35,40 sec 1ed by age). 15,30,15,740 sec	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy	> 15 MΩ @10 Hz 2 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/N Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/N Apnea time Provide MAC va Support two mi RM Method	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec 'Hal/Sev/Des: ≤ 4.4 sec ig flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec 10,15,20,2 alue (support calibrate inted gas identify and r	ng DRYLINE II ™ 15,30,35,40 sec 1ed by age). 15,30,15,740 sec	·	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA ThibiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54:
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Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/N Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/N Apnea time Provide MAC va Support two mi RM Method	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec 'Hal/Sev/Des: ≤ 4.4 sec ig flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec 10,15,20,2 alue (support calibrate ixed gas identify and r Diff-Pressu Range Adult/Ped	ng DRYLINE II ™ 15,30,35,40 sec ed by age). monitoring. ure flow	watertrap and an adult Only Light of the second se	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂)
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Apnea time Provide MAC va Support two mi RM Method Measurement R Flow	y Time g flow 120 ml/min, usi l 2.5m sampling line, ≤ 4 sec ≤ 4.2 sec ≤ 4 sec 'Hal/Sev/Des: ≤ 4.4 sec ig flow 200ml/min, usi mpling line: ≤ 4.2 sec ≤ 4.3 sec ≤ 4 sec Hal/Sev/Des: ≤ 4.5 sec 10,15,20,2 alue (support calibrate ixed gas identify and r Diff-Pressor	ing DRYLINE II ™ ing D	watertrap and an adult Only Light of the second se	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84:
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Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/I Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw	y Time g flow 120 ml/min, usi lg 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult O) L/min nin	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy tcpCO ₂	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂)
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi	y Time g flow 120 ml/min, usi lg 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult O) L/min nin	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy tcpCO ₂	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂)
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf /Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi	y Time g flow 120 ml/min, usi lg 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult O) L/min nin	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy tcpCO ₂	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (50 % O ₂)
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Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi TVe/TVi awRR ran Resolution	y Time g flow 120 ml/min, usi l 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult O) L/min nin	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy tcpCO ₂	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % Or 10 % CO ₂) Better than 5 mmHg (32 % CO ₂) Better than 5 mmHg (21 % O ₂) Better than 1 mmHg (0 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂)
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Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi TVe/TVi awRR rar Resolution Flow Paw MVe/MVi TVe/TVi awRR: Accuracy	y Time g flow 120 ml/min, usi lg 2.5m sampling line,	ing DRYLINE II ™ 15,30,35,40 sected by age). monitoring. ure flow liatric: ± (2 to 12 ± (0.5 to 30) L/m cmH ₂ O liatric: 2 to 60 L/ to 15 L/min liatric: 100 to 15 to 500 ml on (MVe/MVi < 10 I) (MVe/MVi ≥ 10 I)	watertrap and an adult 20) L/min nin (min 00 ml	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2 tcpCO2 VcpCO2	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 5 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Big the results of the sense of the se
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/H Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi TVe/TVi awRR rar Resolution Flow Paw MVe/MVi TVe/TVi awRR:	y Time g flow 120 ml/min, usi l 2.5m sampling line,	ing DRYLINE II ™ 25,30,35,40 sected by age). monitoring. ure flow liatric: ± (2 to 12 ± (0.5 to 30) L/m cmH ₂ O liatric: 2 to 60 L/ to 15 L/min liatric: 100 to 15 to 500 ml on (MVe/MVi < 10 (MVe/MVi ≥ 10 I) liatric: ± 1.2 L/m	watertrap and an adult 20) L/min nin (min 00 ml 0 L/min) L/min)	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy tcpCO ₂ tcpCO ₂ tcpCO ₂ fcpO ₂ SpO2 PR Power Accuracy tcpCO ₂	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 100 % O ₂)
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi TVe/TVi awRR rar Resolution Flow Paw MVe/MVi TVe/TVi awRR: Accuracy	y Time g flow 120 ml/min, usi l 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult 20) L/min nin (min 00 ml 0 L/min) L/min) uin or ± 10% of the ater.	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2 tcpCO2 PR Power Accuracy tcpCO2 SpO2 PR Power Accuracy tcpCO2 Repower Accuracy tcpCO2 SpO2 Repower Accuracy tcpCO2 Repower iView (for N17 only) CPU Memory Hard-disk OS Recorder	> 15 MΩ @10 Hz 19 0 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂)
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi TVe/TVi awRR rar Resolution Flow Paw MVe/MVi TVe/TVi awRR: Accuracy	y Time g flow 120 ml/min, usi l 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult 20) L/min nin (min 00 ml 0 L/min) L/min)	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO ₂ tcpO ₂ SpO2 PR Power Accuracy tcpCO ₂ tcpCO ₂ tcpCO ₂ fcpO ₂ SpO2 PR Power Accuracy tcpCO ₂	> 15 MΩ @10 Hz 1 90 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 5 mmHg (50 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Big the results of reading Intel Pentium N4200 2.5GHz 8 GB mSATA SSD 128GB
Sampling neonatal CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Sampling 2.5m san CO ₂ : N ₂ O: O ₂ : Enf/Iso/I- Apnea time Provide MAC va Support two mi RM Method Measurement R Flow Paw MVe/MVi TVe/TVi awRR rar Resolution Flow Paw MVe/MVi TVe/TVi awRR: Accuracy	y Time g flow 120 ml/min, usi l 2.5m sampling line,	ing DRYLINE II ™ ing D	watertrap and an adult 20) L/min nin (min 00 ml 0 L/min) L/min) uin or ± 10% of the ater.	Electrode Impedance Range 0 to Accurancy Sampling Frequency Analog bandwidth Spectrum analysis Trend tcGas Interfaces with TCM Con Measurement Range tcpCO2 tcpO2 SpO2 PR Power Accuracy tcpCO2 tcpCO2 PR Power Accuracy tcpCO2 SpO2 PR Power Accuracy tcpCO2 Repower Accuracy tcpCO2 SpO2 Repower Accuracy tcpCO2 Repower iView (for N17 only) CPU Memory Hard-disk OS Recorder	> 15 MΩ @10 Hz 19 0 kΩ ± 1 kΩ or ± 10%, whichever is greater 1024 Hz 0.5 to 110 Hz SEF, MF, PPF, TP, Delta, Theta, Alpha, and Beda DSA, CSA InbiM, TCM TOSCA or SenTec SDM monitor. 5 to 200 mmHg 0 to 800 mmHg 0 to 100 % 25 to 240 bpm 0 to 1000 mW TOSCA Sensor 92, tc Sensor 54: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 3 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (1 % or 10 % CO ₂) Better than 5 mmHg (33 % CO ₂) tc Sensor 84: Better than 1 mmHg (0 % O ₂) Better than 3 mmHg (21 % O ₂) Better than 5 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂) Better than 25 mmHg (90 % O ₂)

Up to 3 (paper 50 mm width, 20 m length)

Supports integrated recorder module.

Alarms

Audible indicator Yes, 3 different alarm tones, and prompt tone Visible indicator Red/yellow/cyan LED, and alarm message

Provide AlarmSight infographic alarm indicator.

Data Storage

Trends Data > 120 hrs @ 1min, 4 hrs @ 5 sec.

1000 events, including parameter alarms, Events

arrhythmia events, technical alarms, and so on.

NIBP 1000 sets Interpretation of resting 12-lead ECG results

20 sets

Full disclosure 48 hours at maximum. The specific storage time

depends on the waveforms stored and the number

of stored waveforms.

OxyCRG 120 hrs @1 min ST review

Minitrend Yes

Special Functions

Clinical Assistive Application (CAA):

HemoSight[™], ST Graphic[™], SepsisSight[™], BoA Dashboard™, EWS, GCS, 24hrs ECG Summary, Pace

View

Support calculations (drug, hemodynamic, Oxygenation, Ventilation, Renal),

and Titration table

Support wireless connection with BeneVision TM80 and BP10.

Support nView remote display tool

Wi-Fi Communications

Protocol IEEE 802.11a/b/g/n Modulation Mode DSSS and OFDM

Operating Frequency

Wireless Baud Rate

IEEE 802.11b/g/n (2.4G):

ETSI/FCC/KC: 2.4 to 2.483 GHz MIC: 2.4 to 2.495 GHz

IEEE 802.11a/n (5G):

5.15 to 5.35 GHz, 5.47 to 5.725 GHz ETSI: 5.15 to 5.35 GHz, 5.725 to 5.82 GHz FCC: MIC: 5.15 to 5.35 GHz 5.15 to 5.35 GHz, 5.47 to 5.725 GHz, KC:

5.725 to 5.82 GHz

5 MHz @ 2.4 GHz (802.11 b/g/n) **Channel Spacing** 20 MHz @ 5 GHz (802.11 a/n)

> IEEE 802.11a: 6 to 54 Mbps IEEE 802.11b: 1 to 11 Mbps IEEE 802.11g: 6 to 54 Mbps

IEEE 802.11n: 6.5 to 72.2 Mbps **Output Power** < 20dBm (CE requirement: detection

mode-RMS)

< 30dBm (FCC requirement, detection

mode-peak power)

Operating Mode Infrastructure

WPA-PSK, WPA2-PSK, WPA-Enterprise, **Data Security**

WPA2-Enterprise (EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, PEAP-TLS, LEAP)

Encryption: TKIP and AES

MPAN Communications

Modulation Mode **GFSK**

Operating Frequency 2402 to 2480 MHz

Channel Spacing 2 MHz Wireless Baud Rate 1 Mbps ≤ 2.5 mW **Output Power** Data Security Private protocol

MPAN is used in device pairing for BeneVision TM80, BP10 NIBP module and

BeneVision N series patient monitor.

Output

Auxiliary Output

Meets the requirements of ANSI/AAMI/IEC Standard

60601-1 for short-circuit protection and leakage

ECG Analog Output

Bandwidth (- 3 dB; reference frequency: 10 Hz) Diagnostic Mode: 0.05 to 150 Hz Monitor Mode: 0.5 to 40 Hz

Surgical Mode: 1 to 20 Hz ST Mode: 0.05 to 40 Hz **QRS** Delay ≤ 25 ms (in diagnostic mode, and non-paced)

Sensitivity

Pace Enhancement

Signal Amplitude: Voh ≥ 2.5 V Pulse Width: 10 ms ± 5 % Signal Rising and Falling Time: ≤ 100 µs

IBP Analog Output

Bandwidth (- 3 dB; reference frequency: 10 Hz)

0 to 40 Hz Max. Transmission Delay 30 ms

Sensitivity 1 V/100 mmHg, ± 5 %

Interfacing

AC Power Connector

RJ45 Network Connector, 100 Base-TX, IEEE 802.3

2 (1 for iView) N17:

N15/N12:

USB 2.0 Connector

8 (4 for iView) N17: N15/N12:

Nonstandard USB SMR Connector

N17/N5: 1 to connect SMR, N1/T1 docking station 1 to connect N1/T1 docking station N12:

Standard DVI-D Video Interface Connector N17: 2 (1 for iView)

N15/N12: **BNC Connector**

Equipotential Grounding Terminal

Multifunction Connector for Defib Sync and Analog Output

1 on multi-parameter module

Module Slot

N17/N15: 6 slots N12: 4 slots

Barcode Scanner Support 1D and 2D barcode

Keyboard & Mouse Support wire and wireless type via USB

Remote Control Support Network Printer Support

Battery

Rechargeable lithium-ion Type

Number of Battery

Capacity 4500mAh

when powered by a new fully-charged battery Run Time

at 25 °C±5 °C with 5-lead ECG, SpO2, and auto NIBP measurements every 15 min, and screen

brightness set to 1.

N17/N15: > 2 hrs > 4 hrs N12.

Recharge Time 4.5 hrs to 90% when the monitor is off.

Power Requirements

Frequency

AC Voltage 100 to 240 VAC (±10 %) Current 2.0 to 0.9 A 50 Hz/60 Hz (±3 Hz)

Environmental requirements

Operating: 0 to 40 °C (32 to 104 °F) **Temperature**

Storage: -20 to 60 °C (-4 to 140 °F)

Humidity Operating: 15 to 95 % (non condensing)

Storage: 10 to 95 % (non condensing)

Barometric Operating: 427.5 to 805.5 mmHg (57.0 to 107.4

kPa)

Storage: 120 to 805.5 mmHg (16.0 to 107.4 kPa)

Safety

Type of Protection

MPM/IBP/C.O./NMT/EEG module: CF Degree of Protection

ScvO₂/CO₂/AG/BIS/rSO₂ module: BF

Protection Against Ingress of Fluids

IPX1

Some of functions marked with an asterisk may not be available. Please contact your local Mindray sales representative for the most current information.



