# DINAMAP<sup>®</sup> PRO 100-400 PATIENT MONITOR

# It's What's Inside That Counts!

With the DINAMAP PRO Series, you can take BP measurements that are fast, accurate and comfortable. Get reliable temperature readings in seconds and get oxygen saturation readings with your choice of two superior Sp0<sub>2</sub> technologies. Which means you can spend less time checking vitals and more time on actual patient care.

### **Market-Leading Technologies**

Designed for quality driven healthcare professionals who demand proven world-class technology in every parameter. The DINAMAP PRO 100-400 Series brings these technologies together for the first time in one complete line of flexible monitors.

#### **Built to Last**

Above all, you need a monitor you can depend on. As we strive to continuously improve our products, our latest generation includes enhancements in performance, reliability and serviceability. In addition to incorporating the highest-quality materials for "hospital grade" durability, the new PRO Series is also designed to require little maintenance and be easy to repair. Furthermore, our warranty is the best in the business and fully backed by GE - one of the most respected companies in the world. That's peace of mind that delivers day in and day out.



### Mechanical

Dimensions	Height: 9.8 in (25.0 cm) Width: 9.8 in (24.8 cm) Depth: 6.9 in (17.5 cm)
Weight Including Battery	7.8 lb (3.5 kg)
Mountings	Self supporting on rubber feet or pole mountable
Portability	Carried by recessed handle or pole mounted
Classification Information	Mode of operation: continuous
Classification information	Degree of protection against harmful ingress of water: Drin proof IPX1
Power Requirements	Degree of protection against nammu ingress of water. Drip-proof if X1
	AC input voltage: 100-240 VAC, 50 / 60 Hz (nominal)
	90 ~ 253 VAC, 47 ~ 63 Hz (range), 50VA.
	Protection against electrical
	DC input voltage: 24 VDC (nominal), 12-30 VDC, 36VA, supplied from a source conforming to IEC 601-1.
	AC input is protected by two internal fuses, replaceable by qualified service personnel only. DC input line is protected by an internal auto-resetting fuse. Rattery: 12 volt 2.3 amp-hours protected by internal auto-resetting fuse.
	Minimum operation time: 2 hrs (5 min cycle with adult cuff at $25 \propto C$ with
	Time for full reduced 1 hr 50 min from full discharge when the Monitor is
	awitched off and 8 bre when the Monitor is switched on
Environmental	switched off and 6 his when the Monitor is switched off.
Operating Temperature	$+5 \infty C$ to $+40 \infty C$
operating reinperature	$(\pm 41 \text{ mE to} \pm 104 \text{ mE})$
Operating Atmospheric	(141 - 160 + 164 - 1)
Pressure	700 hPa to 1060 hPa
Storage Temperature	$\tilde{n} 20 \propto C \text{ to } + 50 \propto C$
~····8- ····F ·····-	$(\tilde{n} 4 \infty F \text{ to} + 122 \infty F)$
Storage/Transportation	
Atmospheric Pressure	500 hPa to 1060 hPa
Humidity Range	0% to 95% noncondensing
Radio Frequency	Complies with IEC
	Publication 601-1-2 (April 1993) Medical Electrical Equipment,
Electromagnetic	- * * *
	Compatibility Requirements and Tests and CISPR 11 (Group 1, Class A) for

radiated and conducted emissions. IPX1 The DINAMAP PRO Monitor is protected against vertically falling drops of water and conforms to IEC-529 standard at level of IPX1. Vertically falling drops of water shall have no harmful effects to the Monitor.



**GE Medical Systems** Information Technologies

# DINAMAP<sup>®</sup> PRO 100-400 PATIENT MONITOR

F

Default Settings SpO2 (%) SpO2 (%) Sensitivity Mode

Averaging Time FastSAT Mode

#### **NIBP**

Cuff Pressure Range (Normal operating range) Default Target: Cuff Inflation

Target Cuff Inflation: Adjustment Range (in 5 mmHg increments) Blood Pressure Measurement

Blood Pressure Accuracy

Maximum Determination

Overpressure Cutoff Pulse Rate Range Pulse Rate Accuracy 0 to 290 mmHg (adult) 0 to 140 mmHg (neonate) 160 ± 15 mmHg (adult) 110 ± 15 mmHg (neonate) 100 to 250 mmHg (adult) 100 to 140 mmHg (neonate)

Systolic 15 - 215 40 - 140 Range (mmHg) Adult 30 - 245 MAP Diastolic 10 -195 30 - 115 Neonate 20 - 100Meets or exceeds ANSI/AAMI standard SP-10 (mean error £5 mmHg, standard deviation £8 mmHg) 120 s (adult) 120 s (adult) 85 s (neonate) 300 to 330 mmHg (adult) 150 to 165 mmHg (neonate) 30 to 200 beats/min (adult) 30 to 200 beats/min (neonate) 2 5%

#### Turbo•Temp Temperature Scale

Range

Monitor mode Monitor mode accuracy ∞Fahrenheit (F ∞Celsius (C)

 $\begin{array}{ll} Predictive mode & Max: 41.1 \infty \ C; \ 106.0 \infty \ F \\ Min: 33.6 \infty \ C; \ 96.0 \infty \ F \\ & Max: 41.1 \infty \ C; \ 106.0 \infty \ F \\ Min: 26.7 \infty \ C; \ 80.0 \infty \ F \\ \pm 0.1 \infty \ C \\ \pm 0.2 \infty \ F \ (when tested in a calibrated liquid bath; meets ASTM E1112, \\ \end{array}$ 

Table 1, in range specified) Predictive mode accuracy  $\pm 1.0 \infty F$  $\pm 0.6 \infty C$ less than 60 seconds Determination time

Use only IVAC probes and probe covers. The size, shape, and thermal characteristics of the probe covers can affect the performance of the instrument. Inaccurate readings or retention problems may occur unless IVAC probes and probe covers are used.

#### Nellcor SpO2 Measurement Range

SpO2 Pulse Rate Pulse Rate Perfusion Range Accuracy and Motion Tolerance Saturation Without Motion - Adults\* Without Motion - Adults\* With Motion - Adults/Neo\*\* Low Perfusion Pulse Rate Without Motion Without Motion

70 to 100% ±2 digits 70 to 100% ±3 digits 70 to 100% ±3 digits 70 to 100% ±2 digits

Waveforms Sensor Connect/ Disconnect From Patient Pulse Detection attached to patient Loss of Pulse within 10 s Sensor Light Source Wavelength

Power Dissipation



Red: 660 nm (nominal) 52.5 mW (max)

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or obligation. Contact your GE Representative for the most current information.



### **Masimo SET SpO2**

reasonement range	
pO2	1 to 100%
ulse Rate	25 to 240 beats/min
erfusion Range	0.02 to 20%
ccuracy and Motion Tolerance	
aturation	
Vithout Motion - Adult/Ped*	70 to 100% ±2 digits
Vithout Motion - Neonate*	70 to 100% ±3 digits
Vith Motion - Adult/Ped/Neo**Ü	70 to 100% ±3 digits
ow Perfusioná	70 to 100% ±2 digits
	0 to 69% unspecified
ulse Rate	
Vithout Motion	25 to 240 beats/min =
Vith Motion	normal physiologic ra

n ±3 digits

Without Motion
25 to 240 beats/min ±3 digits normal physiologic range 25 to 240 beats/min ±5 digits

With Motion
25 to 240 beats/min ±5 digits

\*The Masimo SETÆ SpO2 parameter with LNOP-Adt sensors has been validated for no motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies in the range of 70-100% SpO2 against a laboratory co-oximeter and ECG monitor. This variation equals plus or minus one standard devia-tion. Plus or minus one standard deviation encompasses 68% of the population.

\*\*The Masimo SETÆ SpO2 parameter with LNOP-Adt sensors has been validated for motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies while performing rubbing and tapping motions at 2 to 4 Hz at an amplitude of 1 to 2 cm and a non repetitive motion before 1 to 5 Hz at an amplitude of 2 to 3 cm in induced hypoxia studies in the range of 70-100% SpO2 against a laboratory co-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

UThe Masimo SET SpO2 parameter with LNOP-Neo Pt sensors has been validated for neonatal motion accuracy in human blood studies on neonates while moving the neonateis foot at 2 to 4 cm against a labora-tory co-oximeter and ECG monitor. This validation equals plus or minus, one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

AThe Masimo SET SpO2 parameter has been validated for now perfusion accuracy in bench top testing against a Biotek Index 2 simulator and Masimofs simulator with signal strengths of greater than 0.02% and a % transmission of greater than 5% for saturations ranging from 70 to 100%. This variation equals plus or minus, one standard deviation. Pl

Masimo Sensor Accuracy 100%

ensor Model		SpO2 Range 70% - 100%	
NOP			
NOP-ADT		±2 digits	
NOP-ADT	Long	±2 digits	
NOP-PDT		±2 digits	
NOP-NEO		±3 digits	
NOP-NEO PT		±3 digits	
NOP-DCI (reusable)		±2 digits	
NOP-DCSC (reusable)		±2 digits	
NOP-DCIP (reusable)		±2 digits	
RI25 (reusable)		±2 digits	
esolution		-	
aturation (% SpO2)	1%		
ulse Rate (bpm)	1		
ow Perfusion Performance			
0.02% Pulse Amplitude	Saturation (% SpO2) ±2 digits		
nd % Transmission >5%	Pulse Rate ±3 digits		
nterfering Substances			
arboxyhemoglobin may erroneousl	y increase readings. T	he	
evel of increase is approximately eq	ual to the amount of c	arboxyhemoglobin present. Dyes, or any sub-	
tance containing dyes, that change u	isual arterial pigmenta	tion may cause erroneous readings.	
ensor Light Source			
Vavenlength	Infrared: 905 nm (nominal)		
	Red: 660 nm (nomina	d)	
ower Dissipation	Infrared: 22.5 mW (max)		
	Red: 27.5 mW (max)		

HIGH: 100 LOW: 90 2 (for low perfusion-Default) 12 seconds 0 (for Off)

## **GE Medical Systems**

Information Technologies

We bring good things to life.

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1 to 100% 20 to 250 beats/min 0.03 to 20%