# Propag® M

The Propaq You Trust Just Got Better







### Propaq M, your trusted transport monitor, relied upon to go where you go and do what you need it to do.

### Propag M:

- Robust communications options: integrated Wi-Fi, Bluetooth® with USB cellular modem, and Ethernet capabilities.
- · Large display, capable of showing four, six, or 12 waveforms and all clinical parameters on one screen.
- Only transport monitor with a defibrillator and pacer version.
- Four pounds lighter than similar vital signs transport monitors.
- Only transport monitor to offer three invasive pressure channels, necessary to monitor critical patients during long transports.
- · First transport monitor to achieve an IP55 ingress protection rating, indicating protection from jets of water and extremely fine sand/dust.
- Backwards compatible with most existing accessories for all older Propag monitors.
- Available with full Masimo rainbow® SET SpO2, SpCO, SpMet, SpHb, SpOC, PI, and PVI
- Available with optional integrated printer.

#### ADVANCING RESUSCITATION. TODAY.®

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### **Specifications**

Type: Bright, Color, LCD TFT Brightness: User adjustable Resolution: 640 x 480 pixels

Waveform Traces: 4, 6, or 12 waveforms
Display Modes: Standard, high contrast, NVG

(night vision goggle) friendly

Waveform Durations: 4.8, 9.5 seconds

Cable Detection: Automatic 3-, 5-,

Input: 3-lead cable, 5-lead cable, 12-lead cable

Cable Compatibility: Propaq Encore, Propag CS

Leads: I, II, III, AVR, AVL, AVF, V1 - V6 Bandwidth: (User Selectable)

0.67 – 20 Hz Limited mode 0.67 – 40 Hz Monitor mode 0.25 – 40 Hz Filtered diagnostic mode

0.05 - 150 Hz Diagnostic mode

Heart Rate Range: 30 - 300 BPM Heart Rate Accuracy: ±3 BPM or 3% **Pacer Detection and Display** 

**Electrosurgery Interference Suppression ESU and Defibrillation Protected** 

**ECG Sizes:** 0.125, 0.25, 0.5, 1, 2, 4 cm/mv, and

auto-ranging

Sweep Speed: 25, 50 mm/sec

**Common Mode Rejection:** Complies with AAMI EC13-2002 section 4.2.9.10

#### **Patient Modes**

User Selectable: Adult. Pediatric. Neonate. Automatically sets configurable defaults for alarm limits, defibrillation energy, and NIBP settings.

#### Trends (on-screen)

#### Tabular numeric format

All parameters trended/viewable

Trend Intervals: 1, 5, 10, 15, 30, 60 minutes Duration: 24 hours at 1-minute intervals Snapshots: Minimum of 32 display data captures (12 seconds of pre- and post- button press); quick access trend display via display button

Waveforms Printed: 1, 2, or 3 Print Speeds: 25 mm/sec or 50 mm/sec Print Modes: Manual or automatic On/Off Control: Front panel or paddle Paper Delay: 6 seconds Frequency Response: Same as the

Paper Width: 80 mm

### Masimo® SET SpO<sub>2</sub>

Saturation Range: 1-100%

#### Saturation Accuracy:

Oxygen saturation during no-motion conditions:

Adults, Pediatrics: 70 – 100%, ± 2 digits

0 - 69%, unspecified

Neonates: 70 - 100%,  $\pm 3$  digits

0-69%, unspecified

Oxygen saturation during motion conditions

Adults, Pediatrics: 70 – 100%, ± 3 digits

0-69%, unspecified

Neonates: 70 - 100%,  $\pm 3$  digits

0-69%, unspecified

Oxygen saturation during low-perfusion

Adults, Pediatrics 70 - 100%, ± 2 digits

0 – 69%, unspecified

Neonates, 70 – 100%, ± 3 digits 0-69%, unspecified

Pulse Rate Range: 25 - 240 bpm

Adults, Pediatrics,

Pulse rate during no-motion conditions:

Neonates: 25 - 240 ± 3 digits

Pulse rate during motion conditions

Neonates: 25 - 240 ± 5 digits

SpO<sub>2</sub> Average time setting: 4, 8 (default), 16 seconds

Masimo rainbow® SET SpCO®

**Range:** 0 - 99%

Accuracy: 1 - 40% ± 3 digits

## Masimo rainbow® SET SpMet®

Range: 0 - 99%

Accuracy:  $1 - 15\% \pm 1$  digits

 $Masimo\ rainbow^{ ext{ iny B}}\ SET\ SpHb^{ ext{ iny B}}$ 

Measurement Range: 0 - 25 g/dL Accuracy (Adults/Infants/Pediatrics):

8 - 17 g/dL +/- 1 g/dL

Resolution (SpHb g/dL): 0.1 g/dL

 $\mathbf{Masimo\ rainbow}^{\small{(\!\!R \!\!\!)}}\ \mathbf{SET\ SpOC^{TM}}$ 

Measurement Range:  $0 - 35 \text{ mL of } 0_2/\text{dL}$ 

of blood Resolution: 0.1 ml/dL

Masimo Pleth Variability Index (PVI®)

Measurement Range: 0-100%

Resolution: 1%

# Masimo Perfusion Index (PI)

Measurement Range: 0.02 - 20%

Resolution: 0.1%

#### Noninvasive Blood Pressure (NIBP)

Smartcuf® and SureBP® NIBP technology

Measurement Intervals: Automatic 1-, 2-, 3-, 5-, 10-, 15-, 30-, 60-minute, and manual quick-action NIBP Start/Stop button

TurboCuf: 5 min of repeated NIBP readings

#### Typical Measurement Time:

30 – 45 sec (on deflation) 15 – 30 sec — Sure BP (on inflation)

Standard Cuff Sizes: Neonate #1 - #5, Infant,

La Adult, Thiah

# **Default Cuff Inflation Pressure:**

160 mmHa Adult: 120 mmHg Neonate: 90 mmHa

### Pressure Measurement Range:

20 - 260 mmHg Systolic: Diastolic: 10 - 220 mmHg 13 - 230 mmHg Mean:

# **Maximum Cuff Inflation Pressure:**

270 mmHg 170 mmHg Pediatric: 130 mmHg

# Microstream<sup>®</sup> etCO<sub>2</sub> Measurement Technology

**Range:** 0 – 150 mmHg **Accuracy (mmHg):** 0 – 38: ± 2 mmHg

39 - 150: ± 5 % + .08% mmHg >38

Respiration Range: 0 - 150 breaths

# Respiration Rate Accuracy: 0 - 70 bpm: ±1 bpm

71 – 120 bpm: ±2 bpm 121 - 150 bpm: ±3 bpm

Flow Rate: 50 ml/min -7.5 + 15 ml/min

#### **ECG Impedance Respiration**

User-Selectable Leads: RA-LA, RA-LL

**Breath Rate Range:** 

Adult/Pediatric modes: 2 – 150 breaths per minute

Neonate mode: 3 - 150 breaths per minute

Respiration Rate Accuracy: ±2 breaths/

Specifications subject to change without notice.

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Printed in the U.S.A. MCN MP 1611 0029

Sweep Speed: 3.13, 6.25, 12.5 mm/sec Displayed Data: Numeric breath rate, impedance waveform Alarm Setting: High, low, and no breath rate alarm

### **Invasive Pressure**

Three channels

Pressure Range: -30 - 300 mmHg Pulse Rate Measurement Range:

25 - 250 BPM Formats: S/D, S/D (M), (M)S/D.

(M) user selectable

User-Selectable Labels: P1, P2, P3, ABP, AO, ART, CVP, BAP, FAP, LAP, PAP, RAP, UAP, UVP, ICP

Transducer Requirements: 5 µV/V/mmHg Zero Adjustment: ± 200 mmHg

Numeric Pressure Accuracy: ±2 mmHg or 2% reading, whichever is greater of reading, plus

transducer error Transducer Connector: Standard

6-pin AAMI

#### **Temperature**

Two YSI 400/700 series-compatible channels

**Range:**  $0^{\circ} - 50^{\circ}\text{C} (32^{\circ} - 122^{\circ}\text{F})$ 

Units: °C or °F

Display: T1, T2, and delta temp

**Accuracy:**  $\pm$  0.1°C ( $\pm$  0.06°F) from 10 - 50°C (50° - 122°F)  $\pm$  0.2°C ( $\pm$  0.11°F) from 0° - 10°C (32 - 50°F)

#### Power

Rechargeable, user replaceable, lithium ion Operating Time: 7.5 hours (display brightness at 30%, ECG, Sp0<sub>2</sub>, EtCO<sub>2</sub>, IPx3, temp

x2 and NIBP every 15 min)

Battery: Size: 178 mm x 93 mm x 30 mm Weight: 1.4 lbs Battery Indicators: 5 battery capacity LED

indicators, fault indicator, recalibration indicator Recharge Rate: 4 hours to 100% **AC Power Adapter:** 100 – 240 VAC 50, 60, 400 Hz (@110V)

### General

Weight:

8.5 lbs. with battery

9.9 lbs. with battery and printer

Dimensions: 8.9" x 10.4" x 7.0"

with printer 8.9" x 10.4" x 7.9" without handle 8.9" x 8.7" x 6.5"

**Operating Temperature:**  $0^{\circ} - 50^{\circ}\text{C}$ , -26° to 60°C for 6 hours, per MIL STD 810G Method 501.5, Procedure III, and Method 502.5 Procedure II

**Operating Relative Humidity:** 

Operating Altitude: Up to 15,000 ft Transport/Storage Temperature:

Shock: 75G per MIL STD 810G

1 meter per MIL STD 810G, 26 drops,

2 meter per IEC 60601-1 Vibration: MIL STD 810G

Enclosure Protection: (IEC 60529) Solid Foreign Object: IP5X Water Ingress: IPX5

