

Propaq® M

The Propaq You Trust Just Got Better



ZOLL®



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

Propaq M:

- A long-life, user-removeable, hot-swappable battery, providing over 7.5 hours of monitoring of all physiological parameters. Provides over twice the monitoring capability of other transport monitors.
- Large display, capable of showing four, six or twelve waveforms and all clinical parameters on one screen.
- Only transport monitor with a defibrillator and pacer version.
- 4 pounds lighter than similar vital signs transport monitors.
- Only airworthy transport monitor to offer three invasive pressure channels necessary to monitor critical patients during long transports.
- First transport monitor to pass the IP55 ingress protection from jets of water and extremely fine sand/dust.
- Backwards compatible with existing accessories for all older Propaq monitors.

ADVANCING RESUSCITATION. TODAY.®

ZOLL Medical Corporation
Worldwide Headquarters
269 Mill Road
Chelmsford, MA 01824
978-421-9655
800-348-9011

For subsidiary addresses and fax numbers, as well as other global locations, please go to www.zoll.com/contacts.

Propaq M

The rugged and lightweight Propaq® M is specifically designed for the rigors of military and air medical operations. This compact monitor has been enhanced with 12-lead, three invasive pressures, and EtCO₂ to meet all your critical care monitoring needs, with no additional modules required. Its large display conveniently shows four waveforms and all clinical parameters on a single screen to help you treat the most critical patients. With new robust memory on the device, you don't need to worry about losing data when you turn the device off. When you need it all to treat a casualty, you have it all.

Specifications

Display

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

ECG

Cable Detection: Automatic 3-, 5-, 12-Lead
Input: 3-Lead cable, 5-Lead cable, 12-Lead cable
Cable Compatibility: Propaq Encore, Propaq 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 to 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 sets defaults for alarms 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

SpO₂

Compatible with NELLCOR® sensors
Waveform and pulse amplitude meter
Saturation Range: 0 – 100%
Probe Accuracy:
70 – 100% ± 3%
0 – 70% unspecified
Pulse Rate Measurement Range:
20 – 250 BPM ± 3% or 3 BPM, whichever is greater
Saturation Update Period:
Updated once per second

Noninvasive Blood Pressure (NIBP)

Smartcuf® and SureBP® NIBP technology
Measurement Intervals: 1, 2, 3, 5, 10, 15, 30, and 60 minute, and manual
Quick action NIBP start/stop button
TurboCuf™: 5 min of repeated NIBP readings
systolic, diastolic, mean display
on-screen manometer, with large numerics
cuff overpressure protection
Typical Measurement Time:
30 – 45 secs (on deflation)
15 – 30 secs - SureBP (on inflation)
Standard Cuff Sizes: Neonate #1 – #5, infant, child, sm adult, adult long, lg adult, thigh
Default Cuff Inflation Pressure:
Adult: 160 mmHg
Pediatric: 120 mmHg
Neonatal: 90 mmHg
Pressure Measurement Range:
Systolic: 20 – 260 mmHg
Diastolic: 10 – 220 mmHg
Mean: 13 – 230 mmHg
Maximum Cuff Inflation Pressure:
Adult: 270 mmHg
Pediatric: 170 mmHg
Neonatal: 130 mmHg

EtCO₂

Range:
0 – 150 mmHg
Accuracy (mmHg):
0 – 38: ± 2 mmHg
39 – 150: ± 5% + .08% /mmHg >38
Respiration Range: 0 – 150 breaths per minute
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 RPM
Neonate mode: 3 – 150 RPM
Respiration Rate Accuracy: ± 2 breaths/min or ± 2%
Sweep Speed: 3.13, 6.25, 12.5 mm/sec

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% of reading, plus transducer error
Transducer connector: Standard 6 pin AAMI

Temperature

Two YSI 400/700 compatible channels
Range: 0° – 50° C
Units: °C or °F
Display: T1, T2, and delta temp
Accuracy: ± 0.1° C

Power

Rechargeable, user replaceable, lithium ion
Operating Time: 7.5 hours (display brightness at 30%, ECG, SpO₂, EtCO₂, 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: 7.2 lbs without battery and 8.5 lbs with battery
Dimensions: 8.9" x 10.4" x 7.0" without handle 8.9" x 8.7" x 6.5"

Environmental

Operating Temperature: 0° - 50° C, -26 C to 60 C for 6 hours, per MIL STD 810G Method 501.5, Procedure III, and Method 502.5 Procedure II
Operating Relative Humidity:
15% – 95%, NC
Operating Altitude: Up to 15,000 ft
Transport/Storage Temperature:
-30° – 70° C
Shock: 75G per MIL STD 810G
Drop:
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



Specifications subject to change without notice.

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