Welch Allyn Propaq® LT Monitor

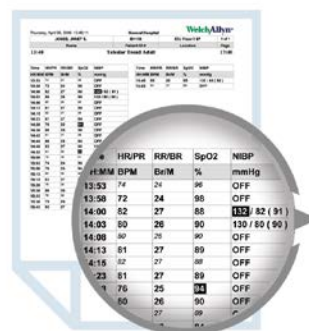## Continuous Monitoring for Ambulatory, Bedside and Transport Applications

The Propaq LT is specially designed to extend continuous monitoring capabilities to care areas where technical complexity or cost made it impossible in the past.

Frontline caregivers all over the world are caring for a growing number of more acutely ill patients. At the same time, a critical shortage of clinicians face increasing requirements for higher care standards and regulations. How will today's healthcare providers meet these increasing challenges? With advancements in technology that offer new paradigms of care. The Propaq LT marks such an advancement.

For a little more than half the price of a traditional bedside monitor, the Propaq LT allows caregivers to extend continuous monitoring to areas never covered before. Appropriate for transport, ambulatory and bedside monitoring applications, the Propaq LT has the versatility to meet your needs. Its simple and highly intuitive user interface allows highly skilled or less skilled clinical staff to operate the monitor with ease. The Propaq LT can even be uniquely configured for a particular care area. With all this, the Propaq LT is the perfect solution for today's fast-paced frontline hospital environment.

Our most compact, rugged and versatile Propaq monitor to date, the Propaq LT features:

- Heart rate, 3- or 5-lead ECG, SpO_2, NIBP, respiration
- Masimo SET® motion-tolerant SpO_2 or Nellcor® SpO_2
- Smartcuf® NIBP
- Highly intuitive, easy-to-use user interface:
  - Custom configurable to user care area
  - Operates in spot-check and/or continuous monitoring modes
  - Three display modes to accommodate varying user skill sets
- 24-hour tabular and graphical trending
- Stores up to 20 full-disclosure data snapshots
- Trends and snapshots to PC printer
- U.S. Military flight-certified for fixed- and rotary-wing aircraft
- A compact design weighing about 2 pounds, around the size of the average paperback book
- Shock resistance of up to 75 g, enough to withstand a 6-foot drop

Print an 8.5" x 11" tabular trend report to show patient data, highlight alarm events, and attach to patient records, or print patient snapshot waveforms.

General
- Adult, pediatric and neonatal patient modes
- Electrosurgery interference suppression (ESIS): all channels except impedance respiration
- All channels electronically isolated

ECG
- Automatic 3- and 5-lead monitoring and cable type detection
- Selectable leads: I, II, III, aVR, aVL, aVF, V
- Lead fault detection and autoconfigure
- Bandwidth:
  - Adult: 0.5 to 80 Hz monitor mode; 0.05 to 80 Hz extended mode
  - Pediatric/neonate: 0.5 to 80 Hz monitor mode; 0.05 to 80 Hz extended mode
- Hypertronics connector
- Heart rate measurement range: 25 to 300 bpm (display)
- Heart rate accuracy: ± 3 bpm or 3%
- Pacer detection and display
- Electrosurgery and defibrillator protected
- Sweep speed: 25 mm/sec (6.25 mm/sec respiration only)
- User-selectable size (mV/cm): 8, 4, 2, 1, 0.5, 0.2
- QRS tone: high/med/low/off
- 3.0 sec waveform duration at 25 mm/sec for single waveform; 6.0 sec waveform duration at 25 mm/sec for cascading waveform
- QRS detector range:
  - Adult or pediatric mode: 0.22 to 5.0 mV (RTI)
  - Neonatal mode: 0.1 to 5.0 mV
  - Neonatal width: 40 to 120 msec
  - Pediatric width: 40 to 120 msec
  - Adult width: 70 to 120 msec

Noninvasive Blood Pressure (NIBP)
- Oscillometric method
- Automatic (intervals between 1 to 60 min) and manual modes
- Quick-action NIBP start/stop button
- TurboCuf: 5 min of repeated NIBP readings
- Systolic, diastolic and mean display
- On-screen manometer
- Store and view up to 150 readings
- Standard cuff sizes: Neonates #1 to #5, infant, child, small adult, adult, large adult, thigh
- Cuff overpressure protection
- Typical measurement time: 30 to 45 sec
- Smartcuf® motion-tolerant NIBP technology
- Blood pressure range:
  - Adult:
    Systolic: 30 to 260 mmHg
    Diastolic: 20 to 235 mmHg
    Mean: 20 to 255 mmHg
  - Pediatric:
    Systolic: 30 to 160 mmHg
    Diastolic: 15 to 130 mmHg
    Mean: 15 to 140 mmHg
  - Neonate:
    Systolic: 25 to 120 mmHg
    Diastolic: 10 to 105 mmHg
    Mean: 10 to 110 mmHg
- Blood pressure target inflation
  - Adult: 160 mmHg
  - Pediatric: 120 mmHg
  - Neonate: 90 mmHg
- Pulse rate accuracy: ± 3 bpm or 3%
- Pulse rate range: 30 to 220 bpm

Pulse Oximetry SpO_2 (Masimo)
- Masimo SET® technology
- Perfusion Index and Signal IQ display
- Sensitivity modes: Normal, MAX, APOD
- Masimo SET® sensors
- Waveform and pulse amplitude meter
- Pulse tone pitch indicator
- Saturation range: 1 to 100%
- Probe accuracy: 25 to 41 °C
  No motion:
  Adult/Pediatric: 70 to 100% ±2 digits
                      0 to 69% unspecified
  Neonatal: 70 to 100% ±3 digits
                      0 to 69% unspecified
  During motion:
  Adult/Pediatric/Neonatal:
                      70 to 100% ±3 digits
                      0 to 69% unspecified
- Pulse rate measurement range:
  (Adult/Pediatric/Neonatal):
  No motion: 26 to 239 bpm
  During motion: 26 to 239 bpm
- Pulse rate accuracy:
  No motion: ±3 digits
  During motion: ±5 digits

Pulse Oximetry SpO_2 (Nellcor)
- Nellcor® OxiMax® sensors
- Waveform and pulse amplitude meter
- Normal, fast and slow response modes
- Saturation range: 1 to 100%
- Accuracy: (Probe: 70 to 100%, 28 to 42 °C)
  - Adult/Pediatric digit: ± 2 counts
  - Neonate digit: ± 3 counts
- Pulse rate accuracy: no motion: ± 3 bpm
- Pulse rate range: 25 to 300 bpm

Respiration
- Breath rate source: impedance pneumography
- Two user-selectable leads: RA-LA, RA-LL
- Automatic cardiovascular artifact (CVA) rejection
- Respiration rate range:
  - Adult/Pediatric modes: 2 to 150 br/m
  - Neonate mode: 3 to 150 br/m
- Respiration detection threshold: 175 milliohms or 2X CVA, whichever is greater
- Respiration rate accuracy: ± 2 br/m or ± 2%
- Sweep speed: 6.25 mm/sec

Physical
- Monitor
  - Height: 5.4 in (137.1 mm)
  - Width: 7.5 in (190.5 mm)
  - Depth: 2.1 in (53.3 mm)
  - Weight: 27 oz (765 g)
- Charging station
  - Height: 5.7 in (144.7 mm)
  - Width: 7.6 in (193 mm)
  - Depth: 6.0 in (152.4 mm)
  - Weight: 24 oz (680.3 g)
- Color display
- 3.5 in color transflective LCD
- Viewable in direct sunlight

Environmental
- Operating temperature: 0 to 40 °C
- Operating relative humidity: 5 to 95%, noncondensing
- Monitor operating altitude: -2,000 to 15,000 ft (-610 to 4,572 m)
- Cradle operating altitude: 500 to 15,000 ft (152 to 4,572 m)
- Shipping/storage temperature: -20 to 60 °C
- Shock resistance: 75 g
- Vibration, Random and Sinusoidal: designed to meet RTCA DO-160D, categories section 8 modified
- Electromagnetic compatibility (EMC): per IEC 601-1-2
- Drip-proof per IEC 529, level IPX1

Power
- Rechargeable lithium ion internal battery pack
- External recharger
- Input voltage: 12-28 VDC
- AC power adapter: 110 and 220 VDC vehicle conversion
- Operating time on battery, typical*:
  ECG/Resp only: 24 hours; ECG/Resp, SpO_2 and NIBP: 8 hours
- Battery recharge time: < 3 hours

Performance may vary based on monitor configuration and battery condition
*Fully charged, new battery at 25 °C, NIBP every 15 minutes, display and backlight operating in power save mode.

Communications
- PC Utility
  USB interface via charging station
  Supports Microsoft Windows® XP/2000 and later
  Autoprint utility allows printing of tabular trends and snapshots to connected laser printer

Alarms
- All parameters: upper/lower limits specific to patient mode
- Factory default or programmable settings for all patient modes
- Alarm indicator: red
- Alarm(s) off indicator: yellow
- Audible alarm tone: high/med/low
- Alarm silence/reset: 90 sec
- One-button "Param-set" for adjusting specific parameter alarm limits, programmable
- Equipment alert: yellow

Trends
- Tabular numeric and graphical formats
- All parameters trended/viewable
- Resolution: non-NIBP trends entered every 1 min; NIBP trends entered after each reading
- Duration: 24 hr non-NIBP trends; up to 150 NIBP readings
- Page up/down trend view
- Up to 20 data snapshots (7 sec behind and 14 sec ahead of snapshot event) of displayed data captured

Certifications/Standards
- Complies with all relevant AAMI, IEC, EN, CSA and UL standards. CE marked according to the European Medical Device Directive. CSA certificate of compliance for use in the U.S. and Canada.

Warranty
- Monitor and recharger: two years
- Accessories: 90 days
- Extended warranties available

All Propaq vital signs monitors come with Smartcuf technology, a new standard in NIBP accuracy. This patented software improves NIBP performance and accuracy in the presence of motion artifact.

This monitor is approved for use during all phases of flight aboard U.S. Army aircraft. MIL STD 461E

Army: CE101, CE102, CS101, CS114, CS115, CS116, RE102, RS103.

Only Masimo SET SpO_2 sensors, including LNCS series of cables and NR value disposable sensors, should be used with Masimo pulse oximetry. Masimo, Masimo SET, LNCS, and NR are registered trademarks of Masimo Corporation.

Only Nellcor® pulse oximetry sensors, including OxiMax® patient-dedicated adhesive sensors, should be used with the Nellcor pulse oximetry option. Nellcor and OxiMax are registered trademarks of Nellcor Puritan Bennett, Inc.

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