



The Welch Allyn Propaq[®] LT

Continuous Monitoring for Ambulatory, Bedside, and Transport Applications



The new 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 growing numbers 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 about 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 new 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 new Propaq LT features:

- A compact design weighing less than 2 pounds, about the size of the average paperback book
- Shock resistance of up to 75 g, enough to withstand a 6-foot drop
- Heart rate, 3- or 5-lead ECG, SpO₂, NIBP, respiration
- Neonatal, pediatric, and adult patient modes
- Highly intuitive, easy-to-use, user interface:
 - Custom configurable to user care area
 - Operates in spot-check and/or continuous monitoring modes
 - Direct-action operation with camcorder-type controls
 - Three display modes to accommodate varying user skill-sets
- Color Transflective LCD, viewable indoors and outdoors
- 24-hour tabular and graphical trending
- Stores up to 20 full-disclosure segment snapshots
- Trends and snapshots to PC printer
- Wireless connectivity option to Acuity[®] Central Station via FlexNet[™]

WelchAllyn[®]

Advancing Frontline Care[™]

Propaq LT Specifications

General

- Available in two configurations:
 - Standalone: model 802LT
 - Networked via wireless radio: model 802LTR
- 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: 0.5-40 Hz monitor mode; 0.05-40 Hz extended mode
 - Pediatric/neonate: 0.5-95.5 Hz monitor mode; 0.05-95.5 Hz extended mode
- Hypertronics connector
- Heart rate measurement range: 25-300 bpm (display)
- Heart rate accuracy: ± 3 bpm or 3%
- Pacer detection and display
- ESU 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: 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: 0.22-5.0 mV (RTI)
 - Neonatal mode: 0.1-5.0 mV
 - Neonatal width: 40-120 msec
 - Pediatric width: 40-120 msec
 - Adult width: 70-120 msec

NIBP

- Oscillometric method
- Automatic (intervals between 1- 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-#5, infant, child, small adult, adult, large adult, thigh
- Cuff overpressure protection
- Typical measurement time: 30-45 sec
- Smartcuf® motion-tolerant NIBP technology
- Blood pressure range:
 - Adult:
 - Systolic: 30-260 mmHg
 - Diastolic: 20-235 mmHg
 - Mean: 20-255 mmHg
 - Pediatric:
 - Systolic: 30-160 mmHg
 - Diastolic: 15-130 mmHg
 - Mean: 15-140 mmHg
 - Neonate:
 - Systolic: 25-120 mmHg
 - Diastolic: 10-105 mmHg
 - Mean: 10-110 mmHg

- Blood pressure target inflation
 - Adult: 160 mmHg
 - Pediatric: 120 mmHg
 - Neonate: 90 mmHg
- Pulse rate accuracy: ± 3 bpm or 3%
- Pulse rate range: 30-220 bpm

SpO₂

- Nellcor® OxiMax® sensors
- Waveform and pulse amplitude meter
- Normal, fast, and slow response modes
- Saturation range: 1-100%
- Accuracy: (Probe: 70-100%, 28-42°C)
 - Adult/Pediatric digit: ± 2 counts
 - Neonate digit: ± 3 counts
- Pulse rate accuracy: no motion: ± 3 bpm
- Pulse rate range: 20-300 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: 2-150 br/m
 - Neonate mode: 3-150 br/m
- Respiration detection threshold: 140 milliohms or 2X CVA, whichever is greater
- Respiration rate accuracy: ± 2 br/m or $\pm 2\%$
- Sweep speed: 6.25 mm/sec

Physical

- Monitor
 - Height: 5.4 in (137.1 mm)
 - Width: 7.5 in (187.9 mm)
 - Depth: 2.0 in (53.3 mm)
 - Weight: 31.9 oz (904.3 g) with FlexNet radio; 27 oz (765 g) without radio
- 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 transfective LCD
- Viewable in direct sunlight

Environmental

- Operating temperature: 0°-40°C
- Operating relative humidity: 5% -95%, noncondensing
- Operating altitude: -2,000 to 15,000 ft (-610-4,572 m)
- Shipping/storage temperature: -20° to 60°C
- Shock: 75 g
- Vibration, Random and Sinusoidal: designed to meet RTCA DO-160D, categories N%C
- 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 v, DC vehicle conversion
- Operating time on battery, typical*:
 - ECG/Resp only: 24 hours; ECG/Resp, SpO₂ and NIBP: 8 hours
- Battery recharge time: 3 to 6 hours

* 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
 - PCs, Microsoft XP/2000 and later
 - Autoprints tabular trends, snapshots
- Acuity® Central Station Wireless FlexNet™ Network 802.11, frequency hopping, spread spectrum modulation 2.4 GHz entered every 1 min

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: amber
- Audible alarm tone: high/med/low
- Alarm silence/reset: 90 sec
- One-button "Param-set" for adjusting specific parameter alarm limits, programmable
- Equipment alert: amber

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 specifications subject to change without notice.



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



Only Nellcor® OxiMax® pulse oximetry 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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