

Welch Allyn Propaq[®] LT Vital Signs Monitor

Spot check and continuous monitoring during simple procedures and pre- and post-operative care.

- 3- or 5-lead ECG, heart rate
- Masimo SET[®] or Nellcor[®] OxiMax[®] pulse oximetry
- NIBP with Welch Allyn FlexiPort[®] technology
- Pulse rate
- Respiration
- Continuous monitoring and spot check modes
- Storage of up to 20 full-disclosure data snapshots
- Print 8.5" x 11" reports from your PC via USB
- Ability to attach PDF to an electronic medical record from your PC
- 24-hour tabular and graphical trending
- Compact design weighing about two pounds, around the size of a paperback book
- Large color display option



Large Color Display Option

Conveniently connect the Propaq LT to a large color display for easy, across-the-room viewing of vital signs numerics, waveforms and alarm limits.

Large Color Display Interface

008-0917-00 Large Color Display Interface
008-0931-00 Propaq LT Charging Cradle with USB,
Large Color Display Interface

General

USB Connection to Propaq LT
Per USB 1.1 (not fully compliant)
USB device type: Vendor-defined class, Full-speed
Communications (12 MBPS)
USB ID: Vendor: 0x0770 Device: 0x0802
USB connector: USB type B female (device)
VGA Output to Flat Panel Display

Physical

Dimensions (w x h x d): 105 x 129 x 59 mm
Attaches to Propaq LT Charging Cradle (screws included)

Certifications and Standards

Safety Marking: CSA, CE marked (TUV, VDE or Equiv.)
Safety Conformance: UL 2601-1, CSA 22.2, No. 950, EN60950
EMC Conformance: EN60601-1-2:2001

Flat Panel Display

Physical

Dimensions (w x h x d): 14.4" x 13.2" x 2.4"

Certifications and Standards

Safety Marking: UL, cUL, CSA cUS, CE marked (TUV, VDE or Equiv.)
Safety Conformance: UL 1950, CSA 22.2, No. 950, EN60950
EMC Conformance: All models: 47CFR Part 15, Class B, EN55022
Class B, EN55024, EN61000-3-2, EN61000-3-3, AAMI EC-13

Wall Mounting Options

008-0983-00 Large Color Display Interface and Flat Panel Wall Mounting Kit
008-0982-00 Flat Panel Wall Mount Kit (VESA)
008-0945-00 Wall Mount Bracket for Propaq LT Large Color Display Interface (w/power supply holster)
008-0203-00 Wall Channel, 19"

WelchAllyn[®]

Advancing Frontline Care[™]

General

- Available in two configurations:
 - Standalone: model 802LT
 - Wireless (for use with Mobile Acuity): model 802LTA
- 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%, whichever is greater
- Pacer detection and display
- Electrosurgery and defibrillator protected when used with specific cables
- 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 (RTI)
 - Neonatal width: 40 to 120 msec (duration)
 - Pediatric width: 40 to 120 msec (duration)
 - Adult width: 70 to 120 msec (duration)

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 SpO₂ (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 SpO₂ (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 b/m
 - Neonate mode: 3 to 150 b/m
- Respiration detection threshold: 175 milliohms or 2X CVA, whichever is greater
- Respiration rate accuracy: ± 2 b/m or $\pm 2\%$, whichever is greater
- 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: 31.9 oz (904.3 g) with FlexNet radio; 27 oz (765 g) without radio
- Charging cradle
 - 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 transreflective 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 60601-1-2:2001
- 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, SpO₂ 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 charging cradle: two years
- Accessories: 90 days



All Propaq vital signs monitors come with Smartcuf technology, a 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 SpO₂ 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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