

Welch Allyn Connex® Integrated Wall System

Features and Specifications

The Connex Integrated Wall System combines complete vital signs monitoring with the Welch Allyn Integrated Diagnostic System, which includes an otoscope and ophthalmoscope—allowing clinicians to take and electronically capture accurate patient vital signs as well as perform basic diagnostic exams.



Product Features

- Simple color touchscreen interface
- For use on adult, pediatric and neonatal patients
- Integrated 3.5v handles for physical assessment instruments (otoscope and ophthalmoscope)
- Spot check and timed intervals monitoring
- Fast, comfortable blood pressure with SureBP® technology
- Blood pressure averaging to help ensure accurate hypertension diagnosis
- SureTemp® Plus and/or Braun ThermoScan® PRO 6000 tympanic thermometry options to meet patient and care setting requirements
- Option of Masimo® or Nellcor® SpO₂
- Connect to digital weight scales from SECA®, Health-o-Meter® and Detecto®
- Up to 20 custom modifiers for more complete patient documentation
- Customizable Early Warning Scoring (e.g., MEWS, PEWS) to enable clinical decision support at the bedside
- Single sign-on options available for quick, secure clinician login
- Wireless, Ethernet and USB EMR connectivity options

Common Configurations

84MTVEP-B	Masimo SpO ₂ , SureTemp Plus, Braun ThermoScan PRO 6000 thermometry, MacroView™ Otoscope, PanOptic™ Ophthalmoscope, SureBP NIBP; Add wireless radio: 85MTVEP-B
84NTVEP-B	Nellcor SpO ₂ , SureTemp Plus, Braun ThermoScan PRO 6000 thermometry, MacroView Otoscope, PanOptic Ophthalmoscope, SureBP NIBP; Add wireless radio: 85NTVEP-B

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Noninvasive Blood Pressure (NIBP)

Cuff Inflation Target	Adult: 160 mmHg Pediatric: 140 mmHg Neonate: 90 mmHg
Systolic Range	Adult/Pediatric: 30 - 260 mmHg Neonate: 20 - 120 mmHg
Diastolic Range	Adult/Pediatric: 20 - 220 mmHg Neonate: 10 - 110 mmHg
MAP Range	Adult/Pediatric: 23 - 230 mmHg Neonate: 13 - 110 mmHg
Blood Pressure Accuracy	Meets the ANSI/AAMI SP10:2002 and ISO/ANSI/AAMI 81060-2:2013 standards for noninvasive blood pressure accuracy (± 5 mmHg mean error, 8 mmHg SD)
BP Determination Time	15 seconds typical, 150 seconds max
Overpressure Cutoff	Adult/Pediatric: 300 mmHg \pm 15 mmHg Neonate: 150 mmHg maximum
Pulse Rate Range	Adult/Pediatric: 30 - 200 bpm Neonate: 35 - 220 bpm
Pulse Rate Accuracy	$\pm 5.0\%$ (± 3 bpm)

Temperature

Measurement Range	SureTemp Plus: 80 - 110°F (26.7 - 43.3°C) Braun: 68 - 108°F (20 - 42.2°C)
Calibration Accuracy	SureTemp Plus: $\pm 0.2^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$) Braun: $\pm 0.4^\circ\text{F}$ (for temps up to 107.6°F), $\pm 0.5^\circ\text{F}$ (for temps higher than 107.6°F)
Determination Time	Oral: Approximately 4-6 seconds Adult Axillary (18 years and older): Approximately 15 seconds Pediatric Axillary (17 years and younger): Approximately 10 seconds Rectal: Approximately 10 seconds Tympanic: Approximately 3 seconds

SpO₂

Measurement Range	1 - 100%
Pulse Rate Range	Masimo: 25 - 240 bpm Nellcor: 25 - 240 bpm Nonin: 40 - 240 bpm
SpO ₂ Accuracy	Masimo: ± 2 digits Nellcor: ± 3 digits Nonin: ± 3 digits
Pulse Rate Accuracy	Masimo: ± 3 digits Nellcor: ± 3 digits Nonin: ± 3 digits

Wireless Radio

Wireless Network Interface	IEEE 802.11 a/b/g/n
Frequency	2.4 GHz - 2.483 GHz (2.4 GHz bands) 5.15 GHz to 5.35 GHz, 5.725 GHz to 5.825 GHz (5 GHz bands)
Authentication/Encryption	Wireless Equivalent Privacy (WEP, RC4 Algorithm); Wi-Fi Protected Access (WPA); IEEE 802.11i (WPA2); TKIP, RC4 Algorithm; AES, Rijndael Algorithm; Encryption Key Provisioning; Static (40-bit and 128-bit lengths); PSK; Dynamic; EAP-FAST; EAP-TLS; EAP-TTLS; PEAP-GTC 1; PEAPMSCHAPv2; PEAP-TLS
FIPS 140-2	Yes
Device Data Security Features	FIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software images and configuration files

Select Specifications

Physical	Height: 10.56 in. (268.26 mm)	Width: 37.80 in. (960 mm) with Braun thermometer 39.92 in. (1014 mm)
	Weight (including battery): 14.1 lb. (6.4 kg)	Power cord length: 8 ft.
Graphical Display Dimensions	Display area: 8 in. (H) x 4 in. (V) (20.3 cm [H] x 10.2 cm [V])	Resolution: 1024 x 600 pixels
Battery	Lithium-ion	
Environmental	Operating temperature: 50°F to 104°F (10°C to 40°C)	Storage temperature: -4°F to 122°F (-20°C to 50°C)
	Operating humidity: 15 to 95% noncondensing	Storage humidity: 15% to 95% noncondensing
	Operating altitude: -557 to 10,000 ft. (-170 m to 3,048 m)	
Handle	FIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software images and configuration files	
Electrical Rating	100-240 V AC, 50-60 Hz, 1.50-.08 A	

For more information, contact your local Welch Allyn representative or visit www.welchallyn.com.