# Welch Allyn<sup>®</sup> Connex<sup>®</sup> Vital Signs Monitor 6000 Series

## ACCURATE VITALS SENT FROM THE BEDSIDE TO YOUR EMR

The Connex Vital Signs Monitor is a proven connected vital signs solution for busy general care floors with the option to expand to continuous monitoring for higher-risk patients.

## **PRODUCT FEATURES**

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- Large color touchscreen simplifies training and operation
- For use on adult, pediatric and neonatal patients
- SureBP<sup>®</sup> technology 15-second NIBP measurement
- SureTemp<sup>®</sup> Plus and/or Braun ThermoScan<sup>®</sup> PRO 6000 ear thermometry
- Masimo<sup>®</sup> or Nellcor<sup>®</sup> SpO<sub>2</sub>
- Interval monitoring mode, including customizable interval programs and alarms
- Manual measurements entry (weight, height, respiration rate, pain) and documentation of modifiers, like body position and O<sub>2</sub> therapy
- 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
- Interface to select digital weight scales

- USB, Ethernet and wireless connectivity
- Integrated printer (optional)
- Nurse call interface.

#### **Options for Continuous Monitoring:**

- Medtronic<sup>®</sup> Microstream<sup>®</sup> Capnography (etCO<sub>2</sub>) with Integrated Pulmonary Index (IPI)
- 3- or 5-Lead ECG with lethal arrhythmia detection
- Pulse oximetry and pulse rate
- Masimo total hemoglobin (SpHb)
- Masimo Acoustic Respiratory Monitoring (RRa)
- Connex Central Station integration for centralized monitoring and alarm management





Without Wireless	With Wireless	
67NXTX-B	68NXTX-B	Blood Pressure, SpO <sub>2</sub> (Nellcor), Temperature (SureTemp Plus)
67MXTX-B	68MXTX-B	Blood Pressure, SpO <sub>2</sub> (Masimo), Temperature (SureTemp Plus)
67NCTX-B	68NCTX-B	Blood Pressure, SpO2 (Nellcor), Temperature (SureTemp Plus), Medtronic Microstream ${\rm etCO}_2$
67MCTX-B	68MCTX-B	Blood Pressure, ${\rm SpO}_{\rm 2}$ (Masimo), Temperature (SureTemp Plus), Medtronic Microstream ${\rm etCO}_{\rm 2}$

## **COMMON CONFIGURATIONS**

490-60 Accessory cable management mobile stand with basket, est with functional devices from the functinformal devices from the functional devices from the functional	Accessories							
4300-02 4900-62 4900-62 6CX wall mount with channel, extended housing devices I 6000-ECG3A 6CX wall mount with channel, extended housing devices I 6000-ECG3A 6CX wall mount with channel, extended housing devices I 6000-ECG3A 6CX wall mount with channel, extended housing devices I 6CX wall mount with channel, extended housing devices I 9Physical     6000-ECG3A 6-lad ECG module     3-lead ECG module       Select Specification Colspan="2">Select Specification Colspan="2">Specification Colsp	4800-60	Accessory cable m	anagement mobile stand with basket		06000-900	Braun PRO 6000 dock with thermometer		
000-0834-01 GCX wall mount with channel 6000-ECG5A 5-lead ECG module   Select Specification   Physical Height: Din, (25,4 cm) Weight (Incluing Data terp: 9,5 lb, (4,3 kg)   Graphical Display read (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Resolution: 1024 x 600 pixels   Battery   Set (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Resolution: 1024 x 600 pixels   Battery   Set (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Resolution: 1024 x 600 pixels   Battery (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Battery (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Battery (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Battery (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Battery (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Battery (W, H): 8 in, x 4 in, (20,3 cm x 10,2 cm)   Compatibution: 100 km Holes Capacity: 2 th 25 m   Colspan="2">Commation: 10 to 100 mmHg (StepEP)   Opticity: 20 mmHg (StepEP)   Distoil crange   Adult: 20 to 220 mmHg (StepEP)   Noneat: 10 to 100 mmHg (StepEP)   Noneat: 10 to 100 mmHg (StepEP)   Noneat: 10 to 100 mmHg (StepEP)	4900-60	· · · · ·			6000-916HS	2D barcode scanner		
Solect Spacifications*     Hight: 10 in, (25.4 cm) Wight: 11 in, (25.9 cm) Depth: 6 in, (15.2 cm) Weight (including battery): 9.5 ib, (4.3 kg)       Graphical Display Dimensions     Display area (W x H): 8 in, x 4 in. (20.3 cm) x 10.2 cm)     Resolution: 10.24 x 600 pixels       Battery     Display area (W x H): 8 in, x 4 in. (20.3 cm) x 10.2 cm)     Resolution: 10.24 x 600 pixels       Battery     Systolic range     Rating: 10.8 V, 6.75 Ah (73 Wh) Composition: Lithium-ion Charge time to 100% capacity: 2 hr 25 m Charge time to 100% capacity: 4 hr Battery (Br. 78 hr**       NigP     Systolic range     Adult: 30 to 260 mmHg (StepBP, SureBP) Pediatric: 30 to 260 mmHg (StepBP, SureBP) Neonate: 20 to 100 mmHg (StepBP).       NigP     Distolic range     Adult: 160 mmHg (StepBP) Pediatric: 20 to 220 mmHg (StepBP) Neonate: 10 to 10mHg (StepBP) Pediatric: 20 to 200 mmHg (StepBP) Neonate: 10 to 10mHg (StepBP) Neonate	4900-62	GCX wall mount with channel, extended housing devices			6000-ECG3A	3-lead ECG module		
Physical     Height: 10 in. (25.4 cm) Weight (including battery): 55 ib. (4.3 kg)       Graphical Display Dimensions     Display area (W x H): 8 in. x 4 in. (20.3 cm) x 10.2 cm)     Resolution: 1024 x 600 pixels       Battery     Battery     Resolution: 10.8 V, 67 S Ah (73 Wh) Composition: Lithium-ion Charge time to 80% capacity: 2 hr 25 m Charge time to 80% capacity: 2 hr 25 m Charge time to 100% capacity: 2 hr 25 m Charge time to 100% capacity: 4 hr Battery (Hr: 216 hr**       Battery     Systolic range     Adut: 30 to 260 mmHg (StepBP) SureBP) Neonate: 20 to 120 mmHg (StepBP) SureBP) Neonate: 20 to 120 mmHg (StepBP) SureBP) Neonate: 20 to 220 mmHg (StepBP) SureBP) Neonate: 20 to 220 mmHg (StepBP) SureBP) Neonate: 20 to 220 mmHg (StepBP) SureBP) Neonate: 10 to 100 mmHg (StepBP) Neonate: 10 to 100 mmHg (StepBP) Neonate: 20 to 220 mmHg (StepBP) Neonate: 30 mmHg (StepB	008-0834-01	GCX wall mount with channel			6000-ECG5A	5-lead ECG module		
Physical     Weith: 11n. (279 em) Dept: 6:10. (5.2 cm) Weight (including battery): 9.5 lb. (4.3 kg)       Graphical Display Dimensions     Display area (W x H): 8 in. x 4 in. (20.3 m Xi.0.2 cm)     Resolution: 1024 x 600 pixels       Battery     Social Composition: Lithium-ion Charge time to 80% capacity: 2 hr 25 m Charge time to 80% capacity: 2 hr 25 m Charge time to 100% capacity: 2 hr 25 m       Battery fire: X8 hr**     Systolic range     Adult: 30 to 260 mmHg (StepBP, SureBP) Pediatric: 30 to 260 mmHg (StepBP, SureBP)       NBP     Systolic range     Adult: 20 to 220 mmHg (StepBP, SureBP) Pediatric: 30 to 220 mmHg (StepBP, SureBP)       NBP     Mainter and the adult is to 100 mmHg (StepBP, SureBP)     SureBP)       NBP     Adult: 20 to 220 mmHg (StepBP, SureBP)     SureBP)       NBP     Mainter ange: 60% capacity: 2 hr 25 m     SureBP       NBP     Adult: 20 to 220 mmHg (StepBP, SureBP)     SureBP)       Neonate: 10 to 100 mmHg (StepBP, SureBP)     SureBP       Neonate: 50 mmHg (StepBP, SureBP)     SureBP     SureBP       SureTemp temperature range: 687 to 1087 (267°C to	Select Specifica	ations*						
Graphical Display Dimensions     x 10.2 cm)     Resolution: 1024 x 000 pxkes       Battery     Security Secur	Physical		Width: 11 in. (27.9 cm) Depth: 6 in. (15.2 cm)					
Battery     9-cell battery     Composition: Lithum-ion Charge time to 80% capacity: 2 hr 25 m Charge time to 100% capacity: 4 hr Battery life: 7.8 hr**       Auth: 30 to 260 mmHg (StepBP, SureBP) Pediatric: 30 to 260 mmHg (StepBP, SureBP) Neonate: 20 to 120 mmHg (StepBP, SureBP) Neonate: 20 to 120 mmHg (StepBP, SureBP) Pediatric: 20 to 220 mmHg (StepBP, SureBP) Pediatric: 20 to 220 mmHg (StepBP, SureBP) Neonate: 10 to 10 mHg (StepBP, SureBP) Neonate: 10 to 10 mHg (StepBP, SureBP) Neonate: 10 to 10 mmHg (StepBP, SureBP) Neonate: 10 to 10 mHg (StepBP) Neonate:	Graphical Display Dimensions			Resolution: 1024 x 600 pixels				
NBPSystolic rangePediatric: 30 to 260 mmHg (StepBP, SureBP) Neonate: 30 to 120 mmHg (StepBP, SureBP) Neonate: 30 to 200 mmHg (StepBP, SureBP) Neonate: 10 to 100 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Pediatric: 200 mmHg (StepBP), SureBP) Pediatric: 200 mmHg (StepBP), SureBP) Pediatric: 200 mmHg (StepBP), SureBP) Pediatric: 200 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Pediatric: 300 mmHg (StepBP), SureBP) Pediatric: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Pediatric: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Pediatric: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Neonate: 300 mmHg (StepBP), SureBP) Pediatric: 300 mmHg (StepBP), SureBP) Neonate: 300 mmH	Battery		9-cell battery	Composition: Lithium-ion Charge time to 80% capacity: 2 hr 25 m Charge time to 100% capacity: 4 hr				
NBP     Diastolic range     Pediatric: 20 to 220 mmHg (StepBP, SureBP) Neonate: 10 to 110 mmHg (StepBP)       NBP     Cuff inflation target     Adult: 160 mmHg (StepBP) Pediatric: 120 mmHg (StepBP) Neonate: 90 mmHg (StepBP) Neonate: 90 mmHg (StepBP), SureBP) Neonate: 90 mmHg (StepBP), SureBP) Neonate: 30 mmHg (StepBP), SureBP)       Temperature     SureTemp temperature range: 80°F to 100°F (2C,7°C to 43.3°C) Braun temperature range: 68°F to 108°F (2C) or to 43.3°C)       SpQ_     Sp02 performance measurement range: 100°C to 43.3°C)       SpQ_     Sp02 performance measurement range: 100°C to 43.3°C)       Vireless Network Interface     EEE 802.11 a/b/g/n       Frequency     24 GHz - 2.483 GHz (2.4 GHz bands) 5L fz to 5.35 GHz, 5.725 GHz to 5.825 GHz (5 GHz bands)       Authentication/Encryption     Vireless Equivalent Privacy (WEP, RC4 A) writer in the virele Access (WPA); IEEE 802.111 (WPA2); TKIP, RC4 Algorithm; AES, Rijndeal Algorithm; Encryption Key Provisioning; Static (40-bit and 128.bit lengths); PSK; Dynamic; 24.PFAST; EAP-TLS; EAP-TLS; EAP-TLS; PEAP-GT : PEAPMSCHAPv2; PEAP-TLS       FIPS 140-2     Yireless Equivalent Privacy (WEP, RC4 A) writer in the dat; Server authentication of the device; Digitally signed software	NIBP		Systolic range	Pediatric:	Pediatric: 30 to 260 mmHg (StepBP, SureBP)			
NIBP   Cuff inflation target   Pediatric: 120 mmHg (StepBP) Neonate: 90 mmHg (StepBP)     Maximum target pressure   Adult: 280 mmHg (StepBP, SureBP) Pediatric: 280 mmHg (StepBP, SureBP)     Blood pressure determination time typical: 15 seconds (SureBP) Blood pressure accuracy meets or exceeds ANSI.AAMI SP10:2002 standards     Temperature   SureTemp temperature range: 80°F to 110°F (26.7°C to 43.3°C) Braun temperature range: 68°F to 108°F (20.0°C to 42.2°C)     SpO2   SpO2 performance measurement range: 1 to 100%     Wireless Radio   EEE 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 802.111 (WPA2); TKIP, RC4 Algorithm; AES, Rijndael Algorithm; Encryption Key Provisioning; Static (40-bit and 128-bit lengths); PSK; Dynamic; EAP-FAST; EAP-TLS; EAP-TLS; PEAP-GTC 1; PEAPMSCHAPv2; PEAP-TLS     FIPS 140-2   Yes			Diastolic range	Pediatric: 20 to 220 mmHg (StepBP, SureBP)				
Maximum target pressurePediatric: 280 mmHg (StepBP, SureBP) Neonate: 130 mmHg (StepBP, SureBP) Neonate: 130 mmHg (StepBP)Blood pressure determination time typical: 15 seconds (SureBP) Blood pressure accuracy meets or exceeds ANSLAAMI SP10:2002 standardsTemperatureSureTemp temperature range: 80°F to 110°F (26.7°C to 43.3°C) Braun temperature range: 68°F to 108°F (20.0°C to 42.2°C)SpO2SpO2 performance measurement range: 1 to 100%Wireless RadioEEE 802.11 a/b/g/nFrequency2.4 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/EncryptionWireless Equivalent Privacy (WEP, RC4 Algorithm); Wi-Fi Protected Access (WPA); IEEE 802.11 i(WPA2); TKIP, RC4 Algorithm; AES, Rijndael Algorithm; Encryption Key Provisioning; Static (40-bit and 128-bit lengths); PSK; Dynamic; EAP-FAST; EAP-TLS; EAP-TLS; PEAP-GTC 1; PEAPMSCHAPv2; PEAP-TLSFIPS 140-2YesPerice Data Security FeaturesFIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software			Cuff inflation target	Pediatric: 120 mmHg (StepBP)				
Blood pressure accuracy meets or exceeds ANSI.AAMI SP10:2002 standardsTemperatureSureTemp temperature range: 80°F to 110°F (26.7°C to 43.3°C) Braun temperature range: 68°F to 108°F (20.0°C to 42.2°C)SpO2SpO2 performance measurement range: 1 to 100%Wireless RadioEEE 802.11 a/b/g/nFrequency2.4 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/EncryptionWireless 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-TLSPevice Data Security FeaturesFIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software			Maximum target pressure	Pediatric:	Pediatric: 280 mmHg (StepBP, SureBP)			
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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-TLS; PEAP-GTC 1; PEAPMSCHAPv2; PEAP-TLS     FIPS 140-2   Yes     Pevice Data Security Features   FIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software	Temperature							
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-TLS; 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	SpO <sub>2</sub>		SpO2 performance measurement range: 1 to 100%					
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-TLS; PEAP-GTC 1; PEAPMSCHAPv2; PEAP-TLS     FIPS 140-2   Yes     Pevice Data Security Features   FIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software	Wireless Radio							
Authentication/EncryptionWireless 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-TLS; PEAP-GTC 1; PEAPMSCHAPv2; PEAP-TLSFIPS 140-2YesDevice Data Security FeaturesFIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software	Wireless Network Interface		IEEE 802.11 a/b/g/n					
Authentication/Encryption   Algorithm; AES, Rijndael Algorithm; Encryption Key Provisioning; Static (40-bit and 128-bit lengths); PSK; Dynamic; EAP-FAST; EAP-TLS; EAP-TLS; 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	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)					
Pevice Data Security Features FIPS approved encryption algorithms of transmitted data; Server authentication of the device; Digitally signed software	Authentication/Encryption		Algorithm; AES, Rijndael Algorithm; Encryption Key Provisioning; Static (40-bit and 128-bit lengths); PSK; Dynamic;					
Device Data Security Features	FIPS 140-2		Yes					
	Device Data Security Features							

\* For complete specifications, see the Connex Vital Signs Monitor Directions for Use. \*\* On-time performance is an estimate based on using a new battery in a typical clinical use environment. Actual performance can vary based on workflow and configuration

For more information, please contact your Hillrom representative or visit us online at hillrom.com.

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Hill-Rom reserves the right to make changes without notice in design, specifications and models. The only warranty Hill-Rom makes is the express written warranty extended on the sale or rental of its products.