

Welch Allyn Connex® Vital Signs Monitor with ECG



Clinicians in low-acuity wards are being stretched further than ever before—and when caring for higher-acuity patients, higher levels of monitoring are often necessary. The Welch Allyn Connex® Vital Signs Monitor with ECG Monitoring capabilities is an easy-to-use device that can help deliver advanced care to patients who may be at risk.

This multi-parameter monitor offers vital signs and basic cardiac capabilities within the footprint of a single vital signs device. The Connex Vital Signs Monitor provides immediate notification of cardiac arrhythmias at the bedside, and can transfer data directly to the EMR.*

The Connex Vital Signs Monitor with ECG Monitoring is designed to help:

- Closely monitor patients who may be at risk in low-acuity care areas
- Detect and alarm for asystole, ventricular tachycardia and ventricular fibrillation at the bedside
- Leverage one monitoring device for all core low-acuity use cases and clinical needs—from spot-check vitals to interval monitoring to low-acuity procedural monitoring
- Help avoid the cost, complexity and training associated with monitors designed for higher-acuity settings
- Help reduce transcription errors and provide immediate access to patient information with numeric connectivity to the EMR
- Help improve staff workflow efficiencies with an easy-to-use monitor designed by clinicians
- Easily connect to local nurse call systems



* Only heart and respiratory rates obtained through ECG monitoring can be transferred to the EMR.



Device Classification	
EMC Class	IIB
IEC Type	CF
Physical Specifications	
Length	101.6 mm (4.00 in.)
Width	57.15 mm (2.25 in.)
Height	27.94 mm (1.10 in.)
Weight	73.71 g (2.60 oz.)
Power Source	USB (4.5 V to 5.5 V)
Digital Data Interface	Serial (USB - Full Speed)
Resolution	14-bit ECG data, 30 mV peak-to-peak dynamic
range minimum	0
IPX	0

Ordering Information	
6000-ECG3I	ECG Module with 3-Lead IEC Patient Cable
6000-ECG3A	ECG Module with 3-Lead AHA Patient Cable
6000-ECG5I	ECG Module with 5-Lead IEC Patient Cable
6000-ECG5A	ECG Module with 5-Lead AHA Patient Cable

Environmental Specifications	
Operating Temperature	10° to 40° C (50° F to +104° F)
Storage Temperature	-20° to +50° C (-4° F to +122° F)
Operating Humidity	15 to 95% non-condensing
Storage Humidity	15 to 95% non-condensing
Operating Altitude	-170 to 3048 m (-557 to 10,000 ft)
Storage Altitude	-170 to 15500 m (-557 to 50,000 ft)

Clinical Specifications	
Heart Rate Detection Range	20 to 300 beats per minute
Heart Rate Accuracy	±3 beats per minute or ±3%, whichever is greater
QRS Detection Amplitude	≥0.5 mV and ≤5.0 mV with QRS width of between 40 ms and 120 ms
Tall T Wave Rejection	Rejects Tall T waves less than 1.4 mV
Defibrillation Protection	Per EN60601-2-27:2011
Electrosurgical Protection	Per EN60601-2-27:2011
Pacemaker Detection	±2 mV to ±700 mV amplitude; 0.5 ms to 2.0 ms pulse width per EN 60601-2-27: 2011
Mains Filter (Configurable)	50 Hz, 60 Hz, off
Monitoring Period	Continuous
ECG Channels	Supports 3-lead or 5-lead
Sweep Speed	25 mm/sec, 50 mm/sec
Lead-off Detection	3-lead or 5-lead
Data Storage Capacity	24 hours

ECG Cable Specifications	
Connector at ECG Module	80 in. ±1 shielded cable to a 24 in. ±1 lead fan-out to electrode connection
ECG Cables	3-lead or 5-lead to snap connection
Patient Cables	Conforms to ANSI/AAMI EC53

Impedance Respiration Specifications	
Impedance Respiration Accuracy	±2 breaths per minute or ±2%, whichever is greater
Range	5 to 100 breaths per minute
Breath Detection Range	0.4 ohms to 3.0 ohms
Respiration Lead Source	Lead II (right arm and left leg)
Respiration, Leads-off Sensing and Active Noise Suppression	Applied currents

Software and Alarm Specifications	
Ventricular Tachycardia Threshold Default	120 beats per minute ±3 beats per minute for 6 consecutive beats
Asystole Threshold Default	No detectable beat for ≥4 seconds
Ventricular Fibrillation Threshold Default	A fibrillatory waveform persisting for ≥4 seconds
Connex Vital Signs Monitor Minimum Software	2.30.01

Contact your Welch Allyn representative to learn more, or visit emeai.welchallyn.com

Welch Allyn EMEAI Customer Care
IDA Business Park - Johnstown
Navan, County Meath, Ireland
(p) +353 46 906 7700
europa@welchallyn.com

WelchAllyn[®]

Hill-Rom[®]

The Connex Spot Monitor (CSM), the Connex Vital Signs Monitor (CVSM) and the Connex Integrated Wall System (CIWS) are intended to be used by clinicians and medically qualified personnel for monitoring vital signs of all patients. Additionally, the CIWS handles supply power to Welch Allyn 3.5V instruments. The Connex Central Station System (CCSS) is intended to be used by clinicians for the central monitoring of patient data and alarms collected with Connex monitors. CSM and CIWS are medical device (93/42/EEC) Class IIa. CVSM and CCSS are medical device (93/42/EEC) Class IIb. Notified Body: DQS Medizinprodukte GmbH (CE0297). Manufacturer: Welch Allyn, Inc., 4341 State Street Road, Skaneateles Falls, NY 13153 USA. EC Rep.: Welch Allyn Limited, Navan Business Park, Dublin Road, Navan, County Meath, Republic of Ireland. These medical devices are a regulated health products which, pursuant to such regulation bears a CE mark. Welch Allyn recommends that you carefully read the detailed instructions for safe and proper use included in the documents accompanying the medical devices. The personnel of healthcare establishments are responsible for the proper use and maintenance of these medical devices. Welch Allyn reserves the right to make changes without notice in design, specifications and models. The only warranty Welch Allyn makes is the express written warranty extended on the sale its products.

©2018 WELCH ALLYN, INC. ALL RIGHTS RESERVED. DOC. NO: SM4163EU MC14413, JAN 2018