

# Connex® Spot Monitor

## Service and Maintenance Toolset Quick Reference Guide



The following is the listing of tools and test equipment required to perform service and maintenance, as well as basic functional verification checks, full functional verification checks and calibration on the Welch Allyn Connex Spot Monitor. Please refer to the device Service Manual for detailed work instructions on servicing your device.



Tools and test equipment must also be readily available to complete Welch Allyn Technical Service Training for this device.

For more information on Welch Allyn Technical Service Training, visit [www.welchallyn.com/technicaltraining](http://www.welchallyn.com/technicaltraining)

Required Service Tools and Test Equipment				Requirement Based on Service Performed		Availability from Welch Allyn	
Functionality	Equipment Description	Quantity Required	General Performance Specifications	Basic Functional Check	Full Functional Verification Check and Calibration	Availability	Welch Allyn Material Number
<b>General Test Equipment</b>							
	Service Test Box	1	N/A		x	Welch Allyn Required	106270
	Welch Allyn Service Tool Software	1	Gold License provided upon successful completion of Welch Allyn Technical Service training.	x	x	Welch Allyn Required	Download from Welchallyn.com
<b>NIBP Testing</b>							
	BP Test Volume	1	Unit must accommodate 3 test volumes: • 100CC • 250CC • 500CC	x	x	Welch Allyn Required	407672
	Pressure Meter	1	Unit must accommodate the following simulations: • Pressure range: 0-500 mmHg • Pressure meter (must include at least two decimal points and be accurate to within ±0.5 mmHg)	x	x	OEM	Customer Supplied
	Blood Pressure Hose: Double-Tube <small>(required if using double-tube blood pressure)</small>	1	5 foot (1.5M) - to be used in creating a Blood Pressure Y tube	x	x	Welch Allyn or Alternative	4500-30
	Blood Pressure Hose: Single-Tube <small>(required if using single tube blood pressure)</small>	1	5 foot (1.5M) - to be used in creating a Blood Pressure Y tube	x	x	Welch Allyn or Alternative	6000-30
	Fitting "Y" 1/8 x 1/8 x 1/8	1	N/A	x	x	Welch Allyn or Alternative	620216
<b>Nonin SpO2 Configuration Testing</b>							
	Nonin SpO2 Simulator	1	Unit must accommodate the following simulations: • BPM: 60 (+/- 1) • Oxygen saturation: 90% (+/- 1)	x	x	SpO2 Simulator	Customer Supplied
<b>Masimo SpO2 Configuration Testing</b>							
	Masimo SpO2 Simulator	1	Unit must accommodate the following simulations: • BPM: 60 (+/-1) • Oxygen saturation: 80% (+/- 3)	x	x	SpO2 Simulator	Customer Supplied
<b>Nellcor SpO2 Configuration Testing</b>							
	Covidien / Nellcor SpO2 Simulator	1	Unit must accommodate the following simulations: • BPM: 60 (+/- 1) • Oxygen saturation: 90% (+/- 1)	x	x	SpO2 Simulator	Customer Supplied
	Nellcor SpO2 Extension cable			x	x	Welch Allyn or Alternative	DOC-10
<b>SureTemp Thermometry Configuration Testing</b>							
	Thermometry Calibration Tester	3 <small>(qty. based on one tester per temp setting)</small>	Unit must accommodate the following simulations: • 96.8° F (+/- 0.2) • 101.3° F (+/- 0.2) • 105.8° F (+/- 0.2)		x	Welch Allyn or Alternative	01802-110
	SureTemp Cal-Key Assembly	1	N/A	x	x	Welch Allyn Required	06138-000

Braun Thermometry Configuration Testing					
	Thermometry Calibration Tester	3 (qty. based on one tester per temp setting)	Unit must accommodate the following simulations: <ul style="list-style-type: none"> <li>• 96.8° F (+/- 0.4)</li> <li>• 101.3° F (+/- 0.4)</li> <li>• 105.8° F (+/- 0.4)</li> </ul>	x	Welch Allyn or Alternative 01802-110
Bluetooth Wireless Connectivity Testing					
	PC with Bluetooth Wireless Technology	1	Wireless Technology. Windows 7 operating system recommended.	x	OEM Customer Supplied

Required Off-the-Shelf Tools	
Description	Quantity Required
PC with Windows 10	1
Wireless Router: a/b/g/n or equivalent	1
Ethernet Cable	1
Micro USB, minimum length 6 feet (1.8M)	1
Single Tube Blood Pressure Hose, 5 feet (1.5M)	1