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› [Welch Allyn](#) /

› [Welch Allyn Connex ProBP 3400 Blood Pressure Monitor with Mobile Stand User Manual](#)

Welch Allyn 34XXST-B

Welch Allyn Connex ProBP 3400 Blood Pressure Monitor with Mobile Stand

Model: 34XXST-B

1. INTRODUCTION

The Welch Allyn Connex ProBP 3400 is a professional-grade digital blood pressure monitor designed for accurate and reliable blood pressure measurements. This device is intended for use by medical professionals in clinical settings. The 34XXST-B model includes a mobile stand for enhanced portability and convenience. This manual provides essential information for the safe and effective operation, setup, and maintenance of your device.



Image 1.1: Welch Allyn Connex ProBP 3400 Blood Pressure Monitor mounted on its mobile stand.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using the device. Failure to follow these instructions may result in inaccurate readings, device damage, or injury.

- **Intended Use:** This device is intended for professional use only.
- **Power Source:** Use only the specified power adapter and battery pack.
- **Cuff Selection:** Ensure the correct cuff size is selected for the patient to obtain accurate readings. Compatible with Welch Allyn cuff sizes from small child to thigh.
- **Environment:** Do not use the device in the presence of flammable anesthetics or in an oxygen-rich environment.
- **Maintenance:** Refer to the maintenance section for cleaning and care instructions.
- **Disposal:** Dispose of the device and its components, including batteries, according to local regulations.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, contact your supplier immediately.

- Welch Allyn Connex ProBP 3400 Device
- Mobile Stand Assembly
- Blood Pressure Cuff (Standard size included, other sizes sold separately)
- AC Power Adapter
- Lithium Ion Battery Pack (pre-installed or separate)
- USB Cable (for EHR/EMR integration)
- User Manual (this document)

4. SETUP

4.1 Mobile Stand Assembly

Follow the instructions provided with the mobile stand for proper assembly. Ensure all components are securely fastened before mounting the device.

1. Attach the base to the pole, ensuring it is stable.
2. Secure the device mounting bracket to the top of the pole.
3. Mount the Connex ProBP 3400 device onto the bracket, ensuring it clicks into place or is secured with the provided screws.
4. Verify that the stand is stable and the device is securely attached before use.

4.2 Battery Installation and Charging

The device uses a Lithium Ion battery. It may come pre-installed or require installation.

- If not pre-installed, open the battery compartment on the back of the device and insert the Lithium Ion battery pack, ensuring correct polarity. Close the compartment securely.
- Connect the AC power adapter to the device's power input and then to a wall outlet. The battery will begin charging.
- A full charge provides up to 100 readings. It is recommended to fully charge the battery before initial use.

4.3 Cuff Connection

Connect the blood pressure cuff tubing to the air port on the side of the Connex ProBP 3400 device. Ensure a snug and secure connection to prevent air leaks during measurement.

4.4 Powering On/Off

Press the power button located on the front panel of the device to turn it on. Press and hold the power button to turn it off.

4.5 EHR/EMR System Integration

The device supports USB-wired technology for integration with select Electronic Health Record (EHR) or Electronic Medical Record (EMR) systems. Connect the provided USB cable from the device to your computer or EMR system. Refer to your EHR/EMR system's documentation for specific integration instructions and software requirements.

5. OPERATING INSTRUCTIONS

5.1 Patient Preparation

For accurate readings, ensure the patient is relaxed, seated comfortably with their back supported, and their arm supported at heart level. Avoid talking or moving during the measurement.

5.2 Cuff Placement

1. Select the appropriate cuff size for the patient's arm circumference. The cuff bladder should encircle at least 80% of the arm.
2. Wrap the cuff firmly around the patient's bare upper arm, approximately 1-2 cm above the elbow joint. The artery mark on the cuff should align with the brachial artery.
3. Ensure the cuff is not too tight or too loose.

5.3 Taking a Blood Pressure Reading

1. Turn on the Connex ProBP 3400 device.
2. Ensure the cuff is correctly placed and connected.
3. Press the START button on the device. The cuff will inflate automatically.
4. The device will detect the blood pressure and display the systolic, diastolic, and pulse rate readings on the screen.
5. The device is designed to obtain accurate readings even in the presence of some motion or a weak pulse.
6. Once the measurement is complete, the cuff will deflate.
7. Record the readings as necessary.

5.4 Customizing Settings

The device can be configured to match your workflow and specific patient needs. Refer to the device's on-screen menu or a more detailed technical manual for instructions on adjusting settings such as measurement interval, alarm limits, and display options.

6. MAINTENANCE

6.1 Cleaning

Regular cleaning helps maintain the device's hygiene and extends its lifespan.

- **Device:** Wipe the exterior of the device with a soft cloth dampened with a mild detergent or a hospital-grade disinfectant. Do not immerse the device in liquid.
- **Cuff:** Cuffs can be cleaned according to the manufacturer's instructions, typically by wiping with a disinfectant or machine washing if specified. Ensure the cuff is completely dry before reuse.
- Do not use abrasive cleaners or solvents.

6.2 Battery Care

To maximize battery life:

- Charge the battery regularly.
- Avoid fully discharging the battery frequently.
- If storing the device for an extended period, ensure the battery is partially charged (around 50%) and store in a cool, dry place.

6.3 Storage

Store the device in a clean, dry environment within the specified temperature and humidity ranges. Protect it from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. If the problem persists, contact Welch Allyn customer support.

Problem	Possible Cause	Solution
Device does not power on	Low or depleted battery; Power adapter not connected; Device malfunction	Connect to AC power; Ensure battery is charged; Check power button; Contact support if issue persists.
Error message during measurement	Cuff not properly applied; Patient movement; Cuff leak; Arrhythmia detected	Reapply cuff correctly; Ensure patient remains still; Check cuff and tubing for leaks; Retake measurement.
Inaccurate readings	Incorrect cuff size; Improper cuff placement; Patient not relaxed; Device needs calibration	Verify cuff size and placement; Ensure patient is calm and still; Contact support for calibration if suspected.
Cannot connect to EHR/EMR	USB cable issue; Software driver missing; EHR/EMR system configuration	Check USB cable connection; Install necessary drivers; Consult EHR/EMR system administrator.

8. SPECIFICATIONS

Feature	Specification
Model Number	34XXST-B
Product Dimensions	12 x 12 x 12 inches
Item Weight	25.4 pounds
Battery Type	1 Lithium Ion battery (included)
Battery Life	Up to 100 readings on a single charge
Connectivity	USB-wired for EHR/EMR integration
Cuff Compatibility	Welch Allyn cuff sizes from small child to thigh

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Welch Allyn website. For technical support, service, or to order replacement parts, please contact Welch Allyn customer service.

Manufacturer Contact Information:

Welch Allyn - Professional

Phone: 1-800-535-6663

