



Introducing The New  
Welch Allyn Vital Signs Monitor  
300 Series

Advanced Monitoring Made Affordable



**WelchAllyn®**

Advancing Frontline Care™

Welch Allyn Vital Signs Monitor 300 Series.

# Simple. Flexible. Affordable.

Your spot-check and continuous vital signs monitor, all in one.

As a clinician you are under pressure to improve outcomes, boost operating efficiencies and lower costs every day. It's a daunting challenge, but one that can be made a little easier thanks to the new Welch Allyn Vital Signs Monitor 300 Series—an affordable vital signs monitor that's both flexible and easy to use.

Like the original Welch Allyn Vital Signs Monitor, the 300 Series helps enhance your productivity by providing automated vital signs before, during and after procedures. The simple, push-button menu operation and bright display allows you to quickly learn and easily obtain the important information you need, so you spend more time with your patients and less time with your equipment.

In addition to the great features you've come to expect from Welch Allyn, the Vital Signs Monitor 300 Series provides these exciting new features:

- Separate patient modes with individual settings for adult, pediatric and neonatal support
- Fast, accurate temperature readings with industry leading Welch Allyn SureTemp® Plus thermometry
- Simple, straightforward operation and intuitive menu navigation with our innovative monitor design

And because the 300 Series monitor is ideal for both routine assessment and continuous monitoring of vital signs, it's like getting two devices at one low price.



## Procedures

The Vital Signs Monitor 300 Series is the ideal solution for taking routine patient vital signs or monitoring before during and after procedures, minor surgery and treatments in a variety of settings, including:

- |  |  |
|--|--|
| <input type="checkbox"/> Medical/Surgical Floors                 | <input type="checkbox"/> Outpatient Surgery Centers  |
| <input type="checkbox"/> Pediatric Floors                        | <input type="checkbox"/> Outpatient Clinics          |
| <input type="checkbox"/> Emergency Departments                   | <input type="checkbox"/> Specialty Physician Offices |
| <input type="checkbox"/> Hospital Special Procedures Departments | <input type="checkbox"/> Urgent Care Centers         |
| <input type="checkbox"/> Labor and Delivery Floors               | <input type="checkbox"/> Dialysis Centers            |
|  | <input type="checkbox"/> Dental Offices              |

## Comprehensive Features

### Non-invasive Blood Pressure

The Welch Allyn Vital Signs Monitor 300 Series begins as a non-invasive blood pressure (NIBP) monitor. Even in its most basic configuration, it delivers the features you need.

- Multiple Patient Modes – Adult, Pediatric and Neonatal operating modes
- Automatic Blood Pressure Mode – choose from 13 measurement intervals
- Programmable Alarms – for high/low systolic, diastolic and pulse rate
- LCD Display – Clock window and menu navigation
- LED Display – Bright, clear viewing of vital sign readings
- Built-In Memory – save up to 99 sets of measurement data

### 4-Second SureTemp® Plus Thermometry

Add SureTemp Plus Electronic Thermometry and take advantage of the revolutionary measurement capability developed by Welch Allyn. Obtain oral, rectal and axillary temperatures with the speed you want and the accuracy you demand.

- Oral – approx. 4 seconds
- Axillary – Adults, approx. 15 seconds; pediatrics, approx. 10 seconds
- Rectal – approx. 10 seconds



### Pulse Oximetry

The Vital Signs Monitor 300 Series can be configured with motion tolerant pulse oximetry (SpO<sub>2</sub>) technology from Nellcor®. Benefit from accurate readings despite shaking or low perfusion.

- Programmable alarms – high/low saturation levels
- Wide variety of patient sensors
- Optional pulse tone feature – audible heart rate and SpO<sub>2</sub> saturation indicator

### Optional Printer

Add an integrated Thermal Printer for trend analysis or record keeping and get what you need at the touch of a button.

## Simple and Straightforward

The Welch Allyn Vital Signs Monitor has a very short learning curve. Simple push-button programming and a large, digital display make learning and using the monitor easy and hassle-free.

## Choose Only the Features You Need

The Vital Signs Monitor 300 Series is designed so you can select precisely the features you need today. That means you don't have to pay for functions you don't use. If your monitoring needs change, upgrading is easy. The 300 Series supports upgrades to all functions – pulse oximetry, 4-second SureTemp Plus oral thermometry and integrated printer – so you can count on your monitor to accommodate your changing needs.





## Take It Wherever You Need It

Carry it, set it on a countertop, wheel it on its own dedicated mobile stand, or mount it on a wall. Do it all—switching from one flexible mounting position to another is simple. Vital Signs Monitor 300 Series goes wherever your patient goes—effortlessly.



### Ordering Information:

53000	NIBP only (includes Pulse Rate and MAP)
5300P	NIBP/Printer
530T0	NIBP/Temperature
530TP	NIBP/Temperature/Printer
53N00	NIBP/Pulse Oximetry
53N0P	NIBP/Pulse Oximetry/Printer
53NT0	NIBP/Pulse Oximetry/Temperature
53NTP	NIBP/Pulse Oximetry/Temperature/Printer
008-0835-00	Mobile Stand with Accessory Basket
008-0834-00	Wall Mount with Accessory Basket

Language version suffix:

E=English, F=French, G=German, I=Italian, S=Spanish

Transformer version suffix:

1=North American, 2=European, 3=UK, 4=Australian

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## Welch Allyn Vital Signs Monitor 300 Series Specifications

### Features

- Noninvasive Blood Pressure
- SureTemp® Plus Thermometry
- Masimo® SET Motion Tolerant Pulse Oximetry
- Nellcor OxiMax® Pulse Oximetry
- Thermal Printer
- Adult, Pediatric and Neonatal Modes
- LCD Display
- Programmable Alarms
- Built-In Memory
- Easy to Use, Portable

### Ordering Information

53000	NIBP only (includes Pulse Rate and MAP)
5300P	NIBP/Printer
530T0	NIBP/Temperature
530TP	NIBP/Temperature/Printer
53S00	NIBP/Masimo Pulse Oximetry
53S0P	NIBP/Masimo Pulse Oximetry/Printer
53ST0	NIBP/Masimo Pulse Oximetry/Temperature
53STP	NIBP/Masimo Pulse Oximetry/Temperature/Printer
53N00	NIBP/Nellcor Pulse Oximetry
53N0P	NIBP/Nellcor Pulse Oximetry/Printer
53NT0	NIBP/Nellcor Pulse Oximetry/Temperature
53NTP	NIBP/Nellcor Pulse Oximetry/Temperature/Printer

Language version suffix:

E=English, F=French, G=German, I=Italian, S=Spanish, C=Chinese, D=Dutch, P=Polish, U=Portuguese, V=Swedish

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# Vital Signs Monitor 300 Series Specifications

## Noninvasive Blood Pressure (NIBP)

Initial Cuff Inflation	Adult 160 mmHg (21.3 kPa) Pediatric 120 mmHg (16 kPa) Neonate 90 mmHg (12 kPa)
Systolic Range	Adult 30 to 260 mmHg (4 to 34.5 kPa) Pediatric 30 to 160 mmHg (4 to 21.3 kPa) Neonate 25 to 120 mmHg (3.3 to 16 kPa)
Diastolic Range	Adult 20 to 235 mmHg (2.7 to 31.3 kPa) Pediatric 15 to 130 mmHg (2 to 17.3 kPa) Neonate 10 to 105 mmHg (1.3 to 14 kPa)
MAP	Adult 20 to 255 mmHg (2.7 to 30 kPa) Pediatric 15 to 140 mmHg (2 to 18.7 kPa) Neonate 10 to 110 mmHg (1.3 to 14.7 kPa)
Pulse Rate Range	30 to 220 bpm
Pulse Rate Accuracy	± 3 bpm or 3%

## Pulse Oximetry (SpO<sub>2</sub>)

### Masimo

Pulse Rate Range	25 to 240 bpm
Pulse Rate Accuracy	±3 bpm (no motion) ±5 bpm (motion) ±3 bpm (low perfusion) <sup>1</sup>
Saturation Accuracy	70% to 100%
Adult/Pediatric	±2 digits (no motion) ±3 digits (motion) ±2 digits (low perfusion) <sup>2</sup>
Neonate	±3 digits (no motion) ±3 digits (motion) ±3 digits (low perfusion) <sup>2</sup>
Saturation Range	1 to 100%

<sup>1</sup> Continuous rubbing and tapping motions at 2 to 4 Hz at an amplitude of 1 to 2 cm and continuous random frequency motion between 1 to 5 Hz at an amplitude of 2 to 3 cm.

<sup>2</sup> Pulse Amplitude > 0.02% and % Transmission > 5%

### Nellcor

Pulse Rate Range	20 to 240 bpm
Pulse Rate Accuracy	±3 bpm ±3 bpm (low perfusion) <sup>1</sup>
Saturation Accuracy	70% to 100%
Adult/Pediatric	±2 digits
Neonate	±3 digits
Saturation Range	1 to 100%

## Temperature

Patient Temperature Range	80 °F to 110 °F (26.7 °C to 43.3 °C)
Predictive Temperature Range (Oral)	96 °F to 105 °F (35.6 °C to 40.6 °C)
Pediatric & Adult Axillary	94 °F to 105 °F (34.4 °C to 40.6 °C)
Temperature Accuracy (Monitor Mode)	± 0.2 °F (± 0.1 °C)
Predictive Measurement Times (approx.)	Oral—4-6 seconds Adult Axillary (18 years and older)—12-15 seconds Pediatric Axillary (17 years and younger)—10-13 seconds Rectal—10-13 seconds
Probe & Probe Well	Oral/Axillary—Blue Rectal—Red



## Printer

Thermal Transfer Printer

## Display

- 16-character liquid crystal display
- 7-segment LEDs

## Nurse Call

Switch Current	1 A maximum
Switch Voltage	30 V AC/DC maximum
Isolation	4000 Vrms
Alarm Relay	NO/NC; Energized during patient alarm
Cable	Customized, not shielded, 10 ft (3 m) long

## Physical

Dimensions	6.6"H, 10.0" W, 6.0" D (16.8 x 25.4 x 15.2cm)
Weight	Approximately 5.4 lbs (2.4 kg)

## Environmental

Operating Temperature (monitor)	+50 °F to +104 °F (+10 °C to +40 °C)
Operating Relative Humidity	15% to 90% (noncondensing)
Operating Altitude	-557 ft to +16,000 ft (-170 m to +4877 m)
Storage Temperature	-4°F to +122°F (-20°C to +50°C)
Storage Humidity	15% to 95% (noncondensing)
Standards	IEC/EN 60601-1:1990 2nd Edition, A1:1992, A2:1995, IEC/EN 60601-1-2:2002, CAN/CSA No. 22.2:601.1 M90, IEC/EN 60601-2-30: 1999, EC/EN 60601-2-49: 2001, ASTM 1112-2000, EN 12470-3:2000

## Power

- AC power supply: 8 V DC at 0.75 A
- Rechargeable sealed lead acid internal battery
- Operating time: 8-12 hours depending on use
- Battery recharge time: 90% in 12 hours
- Simultaneously operates monitor and charges battery when AC power adapter is plugged in

## Monitor Warranty

- Two-year warranty on parts and labor