



## 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

Transformer version suffix:

1=North American, 2=European, 4=UK, 6=Australian

For more information, contact Welch Allyn at 800.289.2500.

**WelchAllyn®**

Advancing Frontline Care™

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## 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



Only Masimo SET SpO<sub>2</sub> sensors should be used with Masimo pulse oximetry. Masimo and SET are registered trademarks of Masimo Corporation.



Only Nellcor OxiMax® pulse oximetry sensors should be used with the Nellcor pulse oximetry option. Nellcor and OxiMax are registered trademarks of Nellcor Puritan Bennett, Inc.

8500 SW Creekside Place, Beaverton, OR 97008  
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Each monitor includes one each noninvasive blood pressure hose, Small Adult, Regular Adult, Large Adult, and Thigh NIBP cuff, AC power adapter and power cord. Each monitor may also ship with one oral probe and box of 25 probe covers if ordered with thermometry, one reusable finger sensor and extension cable if ordered with pulse oximetry, and six rolls of paper if ordered with a printer.

For more information, contact your Med/Surg Representative or Welch Allyn direct at 800. 289.2500. Available on FSS contract V797P-3588K.

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## Power

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- 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

- Three-year warranty on parts and labor



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