



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-E1G	NIBP only (includes Pulse Rate and MAP)
5300P-E1G	NIBP/Printer
530T0-E1G	NIBP/Temperature
530TP-E1G	NIBP/Temperature/Printer
53S00-E1G	NIBP/Masimo Pulse Oximetry
53S0P-E1G	NIBP/Masimo Pulse Oximetry/Printer
53ST0-E1G	NIBP/Masimo Pulse Oximetry/Temperature
53STP-E1G	NIBP/Masimo Pulse Oximetry/Temperature/Printer
53N00-E1G	NIBP/Nellcor Pulse Oximetry
53N0P-E1G	NIBP/Nellcor Pulse Oximetry/Printer
53NT0-E1G	NIBP/Nellcor Pulse Oximetry/Temperature
53NTP-E1G	NIBP/Nellcor Pulse Oximetry/Temperature/Printer

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.

WelchAllyn®

Advancing Frontline Care™

Vital Signs Monitor 300 Series Specifications



Noninvasive Blood Pressure (NIBP)

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

Pulse Oximetry (SpO₂)

Masimo

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

¹ Continuous rubbing and tapping motions at 2 to 4Hz 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.

² Pulse Amplitude > 0.02% and % Transmission > 5%

Nellcor

Pulse Rate Range	20 to 240 bpm
Pulse Rate Accuracy	±3 bpm ±3 bpm (low perfusion) ¹
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 15.2 cm)
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: 8V DC at 0.75A
- 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



Only Masimo SET SpO₂ sensors should be used with Masimo plus oximetry. Masimo and SET are registered trademarks of Masimo Corporation.

8500 SW Creekside Place, Beaverton, OR 97008
503.530.7500 800.289.2500
www.welchallyn.com

SureTemp is a registered trademark of Welch Allyn, Inc.
© 2005 Welch Allyn. All rights reserved. SM2722 Rev C



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.



Advancing Frontline Care™