



Welch Allyn Vital Signs Monitor 300 Series Specifications

Features

- NIBP Nellcor® SpO₂, SureTemp® Plus Thermometry
- Adult, Pediatric and Neonatal Modes
- LCD Display
- Programmable Alarms
- Built-In Memory
- Easy to Use
- Portable, upgradeable

Ordering Information

53000	NIBP only (includes Pulse Rate and MAP)
5300P	NIBP/Printer
530T0	NIBP/Temperature
530TP	NIBP/Temperature/Printer
53N00	NIBP/Pulse Oximetry
53NOP	NIBP/Pulse Oximetry/Printer
53NT0	NIBP/Pulse Oximetry/Temperature
53NTP	NIBP/Pulse Oximetry/Temperature/Printer

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

WelchAllyn®

Advancing Frontline Care™



Non-invasive Blood Pressure (NIBP)

Initial Cuff Inflation	Adult 160 mmHg (21.3 kPa) Pediatric 120 mmHg (16 kPa) Neonate 90 mmHg (12 kPa)
Maximum Allowable Cuff Pressure	Adult 280 Pediatric 200 Neonate 141
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)

Blood Pressure Accuracy

Blood pressure measurement meets or exceeds ANSI/AAMI SP10:2002

Overpressure Cutoff

295 to 330 mmHg
39.3 to 44 kPa

Pulse Rate Range 30 to 220 bpm

Pulse Rate Accuracy ± 3 bpm or 3%

SpO₂

SpO₂ Measurement Range 1% to 100%

Pulse Rate Range 0 and 20 bpm to 250 bpm

Saturation Accuracy

Without Motion	Adult/Pediatric ¹	70 to 100% ± 2 digits
	Neonate ¹	70 to 100% ± 3 digits
With Motion	Adult/Pediatric/Neonate ²	70 to 100% ± 3 digits

¹ Adult specifications are shown for OXIMAX MAX-A and MAX-N sensors with the N-550. Neonate specifications are shown for OXIMAX MAX-N sensors with the N-550. Saturation accuracy will vary by sensor type.

² Applicability: OXIMAX MAX-A, MAX-AL, MAX-P, MAX-I and MAX-N sensors.

Temperature

Patient Temperature Range	80° F to 110° F (26.7° C to 43.3° C)
Predict Temperature Range (Oral)	96° F to 105° F (35.56° C to 40.56° C)
Pediatric & Adult Axillary	94° F to 105° F (34.44° C to 40.56° C)
Temperature Accuracy (Monitor Mode)	$\pm 0.2^\circ$ F ($\pm 0.1^\circ$ C); meets or exceeds ASTM E1112-00; EN12470-

3:2000

Predict 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: 1A maximum

Switch Voltage: 30V AC/DC maximum

Isolation: 4000 Vrms

Alarm Relay: Energized during patient alarm

Cable: Customized, not shielded, 10 ft (3 m) long

Physical

Height: 6.6 in., Width: 10.0 in., Depth: 6.0 in. (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% (non-condensing)

Operating Altitude: -557 ft to +16,000 ft (-170 m to +4877 m)

Shipping Altitude: -2000 ft to +40,000 ft (-615 m to 12,300 m)

Storage Temperature: -20° F to +122° F (-20° C to +50° C)

Storage Humidity: 15% to 95% (non-condensing)

EMC Standard: IEC/EN 60601-1-2:2002

Power

• AC Power supply: 8 volts DC at 0.75 amperes

• Rechargeable sealed lead acid internal battery

• Operating time: 8 hours (Adult NIBP monitoring, at 3-minute intervals, with simultaneous and continuous monitoring of temperature and SpO₂ values)

• 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

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

WelchAllyn[®]

Advancing Frontline Care[™]