



The **Welch Allyn Atlas** is a portable patient monitor that can easily go anywhere with the patient. The Atlas can be used as a countertop monitor, put on a mobile stand, or mounted to a wall. The monitor offers a large display. The large, bright display can easily be seen from across the room. The Welch Allyn patient monitor offers multi-parameter monitoring with 3-lead, and 5-lead ECG, heart rate, pulse rate, pulse oximetry, and blood pressure readings. The monitor offers a battery for short-term transport or low power conditions. The Atlas was designed to be for conscious sedation, anesthesia procedures, and surgery.

Features

- Easy-to-use and can be configured to fit your needs
- Multiparameter monitor including, 3-5 lead ECG, SpO₂, NIBP, and heart rate
- LED Display that is bright and can be seen across the room
- Simple, straight forward menu operation



Specifications

Dimensions

Height: 8.75 in (23 cm)
Width: 13 in (33 cm)
Depth: 9.5 in (24 cm)
Weight: 9.5 lbs (4.3 kg)

Display

Display type: cathode Ray Tube / LED
Display Size: 10.8 in x 4.9 in (275 mm x 125 mm)
Screen Display (numeric):
Heart Rate (ECG)
MAP (mean arterial pressure)
Respiration Rate (impedance respiration, models 622xx and 623xx)
Respiration Rate (ETCO₂, model 623xx only) CO₂ concentration (model 623xx only)
Screen Display (waveform)
ECG – one line, or cascading to two lines, with 1 mV scale bar on first line
SpO₂ Impedance Respiration (models 622xx and 623xx)
ETCO₂ (model 623xx)
Numeric Display:
3-digit green LED: Pulse
3 digit red LED: Systolic
3 digit red LED: Diastolic
2-digit red LED: SpO₂%
4-digit green LED: Temperature (models 622xx and 623xx)
Trend Data:
Date/Time, Heart Rate, Systolic, Diastolic, MAP, SpO₂
Respiration Rate, Temperature (models 622xx and 623xx)
CO₂ concentration (model 623xx)
Trend Sampling: Sample at every BP cycle, or every 15 minutes
Trend Capacity: 144 samples, maximum time span 36 hours

Power

Power Voltage: 100 to 240 VAC
Power Frequency: 50-60 Hz
Power Current: 1 A

Storage and Operation Conditions

Storage Temperature: -20° to 50° C
Storage Humidity: 15 to 95% non-condensing
Storage Altitude: -170 to 1700 meters
Operating Temperature: 10° to 40° C
Operating Humidity: 15 to 90% non-condensing
Operating Altitude: -170 to 17000 meters



Specifications

Alarms

AlarmRange:

Systolic Low Limits: 60 – 245 mmHg

Systolic High Limits: 65 – 250 mmHg

Diastolic Low Limits: 30 – 150 mmHg

Diastolic High Limits: 35 – 155 mmHg

MAP Low Limits: 45 – 185 mmHg

MAP High Limits 50 – 190 mmHg

Initial Cuff Pressure: 120, 140, 160, 180, 200, 240, 280 mmHg - user selectable

Repeated Cuff Pressure: Previous Systolic pressure + 40 mmHg

Maximum Inflation time: 3 minutes (typical:< 40 seconds)

Inflation Over-Pressure Dump: <3000 mmHg

Inflation Over-Pressure Dump backup": <330 mmHg

ECG

Heart Rate Range: 21 to 249 beats/minute

Heart Rate accuracy: ± 3 beats/minute or $\pm 3\%$ whichever is greater

Bandwidth, Normal Mode: 0.5 to 40 z

Bandwidth, Extended Mode: 0.05 to 100 Hz

Leads: 3 wire to 5 wire, available in AHA or IEC colors

Connectors: AAMI 6 pin

Electrodes: Disposable snap electrodes

Display Sweep Speeds: 6.25, 12.5, 25 mm/second

Gain: 10 mm/mV, and automatic gain with visual scale indicator

Scale Reference Bar: A fixed 1 mV reference bar is displayed with the top ECG waveform for scaling of the waveform. This is provided in place of a standardizing voltage.

Lead Display: Single, user selectable: I, II, III; or I, II, III, aVR, aVL, aVF, V

Heart Rate Display: numeric

Waveform Display: One or two rows (cascading) of ECG waveform display

Leads Off Condition: Detected and displayed (selected lead only)

Alarms: High and Low Heart Rate

Alarm Ranges

Heart Rate Low Limits: 21 to 245 beats/minute

Heart Rate High Limits: 25 to 249 beats/minute

Pulse Tone: Constant frequency, ECG used alone; Synchronized to SpO2 pulse tone, ECG and SpO2 used together, frequency varies with perfusion

Input Impedance >2.5 Megohms at 10Hz

