

Welch Allyn[®] PIC 50

Multi-Parameter Monitor • Defibrillator • Pacer Series

The Welch Allyn PIC 50 system, is the most innovative, reliable monitor/defibrillator/pacer available. Intelligently designed for the user, the Welch Allyn PIC 50's controls and menus are easy-to-use. Welch Allyn's innovative platform makes it possible for upgrades to be performed at anytime in the field.



Welch Allyn Portable Intensive Care System

- Lightweight, weighs only 10 lbs
- Rugged transport unit designed for both out-of-hospital and hospital users
- Simple operation with dedicated controls for monitor, defibrillator, pacing and treatment summary
- Innovative design to allow custom configurations and future upgrades
- Optional data card transfer, fax, GSM cellular, and other sophisticated communication options

Standard

- 3 or 5 lead ECG
- Respirations
- Defibrillator
- SpO₂

Options

- 12 lead ECG
- 12 lead ECG interpretation
- PACER
- AED
- NIBP
- 2 x IBP
- Temperature
- CO₂
- Communication

The PIC 50 is part of Welch Allyn's complete range of diagnostic and therapeutic cardiology products. From defibrillators, to monitors, to ECGs, to Holters, to ABPMs and more - you can count on Welch Allyn cardiac products to meet your every need.



Intelligently designed for high acuity and transport environments

WelchAllyn[®]

Advancing Frontline Care

Welch Allyn® PIC 50

DEFIBRILLATOR

Waveform:

Biphasic: Low current, impedance compensated, optimized terminating current, truncated exponential biphasic

Energy Select:

External: 2, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 300, 360 J.

Internal: 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50 J.

Charge Time: < 10 seconds @ 360 J (typical)

Charge Indicator: Audible and graphic.

Output: Adult paddles, internal paddles, pediatrics adapter and multipurpose hands-free adapter available.

Synchronizer: Delivers energy within 60 msec.

Disarm: Front panel switch.

MONITOR/DISPLAY

Input: 3-lead PIC: 3-lead or 5-lead patient cable, paddles, or multipurpose hands-free adapter.

12-lead PIC: 3-lead, 12-Lead patient cable, paddles or multipurpose hands free adapter.

Size: 6.5inch; 16.5cm diagonal, non-fade.

Type: Color active matrix TFT display

Display Resolution: 640 x 480 pixels.

Sweep Speed: 25 mm / sec.

Lead Selections: Paddles (Pads), I, II, III, AVR, AVL, AVF, V.

Frequency Response: (User-selectable).

- 2 to 20 Hz Limited mode
 - 1 to 40 Hz Monitor mode
 - 0.05 to 40 Hz Limited Diagnostic mode
 - 0.05 to 150 Hz Diagnostic mode
- (automatically sets chart recorder response)

Common Mode Rejection: 90dB (Complies with AAMI EC13-1992 section 3.2.9.10.)

Heart Rate Meter: 20 to 300 BPM.

Heart Rate Alarms: User-selectable.

Size: 0.125, 0.25, 0.5, 1, 2, 4 cm/mv and auto-sizing.

ECG Output: 1 V/mV

RECORDER

Type: High-resolution thermal array.

Annotation: Time, date, ECG lead, ECG gain, heart rate, defibrillation and pacing parameters and treatment summary ACLS events.

Paper Width: 50 mm.

Paper Speed: 25 mm/sec.

Delay: 6 seconds.

Frequency Response: Automatically set to monitor's frequency response.

Treatment Summary: 7 switches to record key ACLS events (IV, INTUB, EPI, LIDO, ATROP, etc.).

Automatically logs into memory the type of event, time and ECG sample.

Tx Summary Log: 60 ECG events or 4000 non-ECG events.

Record Modes: Manual and automatic

Voice Memo™ (optional): Quickly and easily records operator's voice into the internal memory.

Record Modes: Manual & Automatic (User configurable)

BATTERY

High Capacity Type: NiMH 12 volt - Welch Allyn SuperPac®

Low Battery Indicator: Flashing low battery icon on display.

Multiple Paired Contacts: Ensures quick, error-free insertion and backup reliability.

Recharge Rate*: 80% in 7.5 hours, 100% in 9.5 hours.

* (For high capacity batteries)

GENERAL

Weight: 10 lbs; 4.5 kg (basic configuration).

Size: 12.5 x 12.5 x 5.3 inches; 32 x 32 x 13 cm

Operating: 2.0 hours of continuous ECG, SPO₂, CO₂, and BP monitoring or 120 shocks at 360 Joules (typical)

Actual operating times will vary according to the condition of the battery and the number of additional options activated.

Temperature*: 0 to 45° C

Humidity* (NC): 15 to 95% RH

Vibration*: MIL-STD 810E

Shock / Drop*: MIL-STD 810E

Altitude: Up to 15,000 feet

Transport and Storage: Temperature (-30 to 70°C), humidity (15 to 95% non-condensing), atmospheric pressure (860 to 1060 hPa), shock/vibration (ISTA 1A)

Enclosure Protection*:

Solid Foreign Object: IEC 529, IP2X

Water: IEC 529, IPX4.

* All tests performed per AAMI DF-2 Defibrillation Standard.

Operating Power: SuperPac®, auxiliary AC power from Welch Allyn Quick Charger, 12v vehicle adapter.

PULSE OXIMETER

Measurement Range: 31 to 99%.

Heart Rate Range: 30 to 250 BPM ± 5% or 5 BPM

whichever is less.

Accuracy: 81 to 99% = ± 2%, 70 to 80% = 3%, 0 to 69% unspecified.

Update Period: Every pulse after 4 valid pulses.

Messages: Check Probe, Searching, Signal OK, No Signal, Low Perfusion, Alarms Enabled/Disabled (icon), Testing.

Alarm Limits: 60 lower limit, 70 upper limit to 99%.

Probe: Reusable finger or multi-site probe.

PACER (option)

Type: External transcutaneous pacing.

Pacer Rate: 30 to 180 BPM ± 5%.

Output Current: 30 to 180 mA ± 10% or 5 mA (whichever is greater).

Modes: Demand and asynchronous.

Status Indicators: ECG lead fault, pace lead fault, pace marker on monitor and chart, start/stop LED

Pulse Type: Rectangular, constant current.

Pulse Width: 20 ms.

Refractory Period: 250 ms.

Output Protection: 360 Joules.

IBP (option)

2 Channels: Systolic, Diastolic, MAP, and waveform displays

Pressure Range: -30 to 300 mmHg

Accuracy: 2%

Transducer: 5µv/v/mmHg

Offset Imbalance: +120Mhg

CO₂ (option)

Mainstream CO₂: CO₂ & ETCO₂ display

Range: 0 to 76 mmHg

Accuracy CO₂: + 4 mmHg (< 40 mmHg), + 10% (> 40 mmHg)

Resolution: 1 mmHg

Respiration Range: 3 - 60 bpm

Apnea Indication: 20 seconds (CO₂ level < 5 mmHg)

NIBP (option)

Technique: Non-invasive oscillometric method, referenced to auscultatory standard, using the 5th Korotkoff sound as the diastolic reference.

Operating Modes: Automatic and manual

Initial Cuff Inflation: Adult and child: 170 mmHg, infant: 125 mmHg.

Automatic Cycle Times: 1, 2, 3, 5, 10, 30 minute intervals.

Blood Pressure Range: Systolic: 30 to 245 mmHg, diastolic: 10 to 210 mmHg.

Heart Rate Range: 30 to 250 BPM ± 10% or 5 BPM.

Blood Pressure Accuracy: +5 mmHg mean error, +8 mmHg standard deviation.

Blood Pressure Validation: Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultation method within the limits prescribed by the American National Standard Institute.

Alarms: Artifact, check cuff, tighten cuff, cuff leak, motion

Alarm Limits: Systolic: 30 to 245 mmHg

Diastolic: 25 to 210 mmHg

TEMPERATURE (option with NIBP)

Measurement Range: 0° to 50°C (32° to 122°F)

Accuracy: ± 0.2°C (0.3°F)

Resolution: 0.1°C (0.1°F)

Scale: Fahrenheit or Celsius.

Probe: YSI Series 400.

Alarm Limits: High 37° to 43° C (99-109°F); low 29° to 36° C (85-98°F) alarm limits.

AED (option)

Configurable: Basic & Basic+ modes

Operation: Continuous analysis of ECG advises shock on VFIB, shockable VTACH

Energy Sequence: User configurable
Monophasic: 200/200/360J or 200/300/360J

Biphasic: 150/200/300/360J

Factory Default: Monophasic: 200/300/360J

Biphasic: 150/200/300J

Prompts: Audible voice and visual text prompts

12-LEAD (option)

Acquired 12-lead: I, II, III, AVR, AVL, AVF, V1- V6 acquired simultaneously.

Transmitting: Optional fax/modem; 10 seconds of ECG (12-leads)

Printing: 3 second samples of 12-leads

12-lead Interpretation: (optional) Provides interpretation statements and measurements. Also provides Welch Allyn's exclusive on screen display and review of interpretation results.

CERTIFICATION

North American certification: UL and cUL.

For ordering information, call your local Welch Allyn representative.



Welch Allyn

1000 Asbury Drive, Buffalo Grove, IL 60089 Tel: 847/520-0300 • 800/462-0777

Fax: 847/520-0303 www.welchallyn.com

Welch Allyn®

SM 2502 Rev.A © 2003 MRL, Inc., a Welch Allyn company. All rights reserved. Specifications subject to change without notice.

Contact your local Welch Allyn representative for further information. PIC is a trademark of Medical Research Laboratories, Inc.

Advancing Frontline Care