

Welch Allyn[®] PIC 40

Compact, Lightweight and Versatile



Welch Allyn PIC 40: Monitor/Manual Defibrillator/AED

A unique combination of multiparameter monitor and defibrillator, the PIC 40 is ideal for day surgery and other ambulatory care environments.

Features Include:

- Welch Allyn Biphasic technology
- Manual defibrillation (2 – 360 joules)
- Synchronized cardioversion
- Automated External Defibrillation (voice and text prompts)
- 6.5" color display
- High Performance Welch Allyn SuperPac[®] rechargeable batteries using sophisticated NiMH technology
- 3 or 5 lead ECG and SpO₂ monitoring
- Optional NIBP
- Optional external pacing
- Innovative design to allow for future upgrades
- Simple operation with dedicated treatment parameter controls

The PIC 40 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.

The Welch Allyn PIC 40 combines essential monitoring parameters with an AED, manual defibrillator, pacing, and seamless data management to create a single, easy to use package. The PIC 40 comes standard with 3 or 5 lead ECG monitoring and SpO₂, in addition to both manual and automatic defibrillation. When used as an AED, the PIC 40 provides escalating energy levels (200j, 300j, 360j) per AHA guidelines. In manual mode, the defibrillator can provide anywhere from 2j to 360j.

The radiant 6.5 inch color display provides all pertinent information such as quick function icons, text messages, prompts, ECG and SpO₂ waveforms, and alarms for HR and SpO₂.

Optional parameters include NIBP, external pacing, and data record and playback.

The PIC 40 is also upgradeable without changing the physical size or weight of the unit.

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GENERAL

Weight: 10.5 lbs (4.76 kg) basic configuration
Size: 16.7 x 12.5 x 5.3 inches; 41.75 x 32 x 13 cm
Operating:
Time: 2 hours
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: Battery pack or auxiliary power supply

MONITOR/DISPLAY

Input: 3-lead or 5-lead patient cable, paddles, or multipurpose hands-free adapter
Size: 6.4 inch (16.5 cm) diagonal, non-fade
Type: LCD color active matrix
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
• 0.5 to 40 Hz Monitor mode
• 0.05 to 150 Hz Diagnostic mode
(automatically sets chart recorder response)
Common Mode Rejection: 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-ranging

AED

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

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) SuperPak
Charge Indicator: Audible and graphic
Output: Adult paddles, internal paddles, peds adapter and multipurpose hands-free adapter available
Synchronizer: Delivers energy within 60 msec
Disarm: Front panel switch

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

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: Records defibrillation, pacing and status events. Automatically logs into memory the type of event, time and ECG sample
Tx Summary Log: 60 ECG events or 300 non-ECG events
Record Modes: Manual and automatic

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)

POWER

Mains Voltage: 100-240VAC (auto ranging)
Mains Frequency: 50/60Hz

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

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

CERTIFICATION

North American certification: UL and cUL

ORDERING INFORMATION

973092* Welch Allyn PIC 40

973093* Welch Allyn PIC 40 with NIBP

973094* Welch Allyn PIC 40 with NIBP and External Pacing

973095* Welch Allyn PIC 40 with External Pacing

(* denotes required letter code for language and voltage)

E = English (North American), 110V, AHA • U = English (United Kingdom), 220V, AHA • S = Spanish, 220V, IEC • A = English (Australian), 220V, IEC • F = French, 220V, IEC • Q = French (Quebec), 110V, AHA • G = German, 220V, IEC • I = Italian, 220V, IEC • M = Spanish (Latin American), 110V, AHA • P = Portuguese, 220V, IEC • B = Portuguese (Brazil), 110V, AHA • T = South African, 220V, IEC



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