

HeartSine® samaritan® PAD 500P

Connected AED

Semi-Automatic Public Access Defibrillator with Integrated Wi-Fi® Connectivity

Data sheet

Readiness matters.

When sudden cardiac arrest occurs, immediate treatment is vital. A victim's chance of survival dramatically decreases for every minute without treatment.¹ This means not only must an Automated External Defibrillator (AED) be close at hand and easy to use, it must be ready to shock.

Connected for extra protection, HeartSine samaritan PAD 500P Connected AED with CPR Advisor offers real-time feedback on CPR force and rate as well as offering key features that help ensure readiness:

- Simplified readiness monitoring
- Integrated Wi-Fi connectivity
- AED program management
- Low cost of ownership

Readiness made easy



LIFELINKcentral AED Program Manager

Monitors AED programs by tracking AED readiness status, Pad-Pak expirations, CPR/AED training certificates and more.



Integrated connectivity

Communicates via Wi-Fi with LIFELINKcentral AED Program Manager to enable AEDs to be managed across a single or multiple locations.



Made for you



Integrated real-time CPR feedback

Easy-to-understand visual and voice prompts guide the rescuer through the entire resuscitation process, including CPR.



Unique Pediatric-Pak

Ensures the appropriate energy level is delivered for children, between 1 and 8 years of age or up to 25 kg (55 lb).



Highly portable

With the lightest weight and most compact footprint among leading AEDs, is easily transported and fit into constrained spaces.



Clinically validated technology²

Proprietary electrode technology and SCOPE biphasic technology, a low energy escalating waveform, that automatically adjusts for differences in patient impedance.



High level of protection from dust and water

Offers IP56 rating, one of the highest ratings in the industry.

Simple to own



Two parts, one expiration date

The innovative Pad-Pak, an integrated battery and electrode single-use cartridge with one expiration date, offers one simple maintenance change every four years.



Low cost of ownership

Shelf life of four years means that the Pad-Pak offers savings over other defibrillators that require separate battery and electrode replacements.



8-year warranty

AED is backed by an 8-year limited warranty.



Specifications

Defibrillator

Waveform: Self-Compensating Output Pulse Envelope (SCOPE) optimised biphasic escalating waveform compensates energy, slope and duration for patient impedance

Patient analysis system

Method: Evaluates patient's ECG, electrode contact integrity and patient impedance to determine if defibrillation is required

Sensitivity/Specificity: Meets IEC/EN 60601-2-4

Impedance range: 20-230 ohms

Energy selection

Pad-Pak shock:

Shock 1: 150J
Shock 2: 150J
Shock 3: 200J

Pediatric-Pak:

Shock 1: 50J
Shock 2: 50J
Shock 3: 50J

Charge time (typical):

150J in < 8 seconds,
200J in < 12 seconds

Environmental

Operating/Standby temperature:

0°C to 50°C (32°F to 122°F)

Transport temperature:

0°C to 50°C (32°F to 122°F)

NOTE: It is recommended that the device should be placed in an ambient temperature of between 0°C to 50°C (32°F to 122°F) for at least 24 hours upon first receipt.

Relative humidity: 5% to 95% non-condensing

Water resistance:

IEC 60529/ EN60529 IPX6 with electrodes connected and battery installed

Dust resistance:

IEC 60529/ EN60529 IP5X with electrodes connected and battery installed

Enclosure:

IEC/EN 60529 IP56

Altitude:

-381 to 4 575 metres (-1,250 to 15,000 feet)

Shock:

MIL STD 810F Method 516.5, Procedure 1 (40 G's)

Vibration: MIL STD 810F Method 514.5, Procedure 1

Category 4 Truck Transportation – US Highways

Category 7 Aircraft – Jet 737 & General Aviation

Atmospheric pressure: 572 hPa to 1060hPa (429 mmHg to 795 mmHg)

EMC: IEC/EN 60601-1-2

Radiated emissions: IEC/EN 55011

Electrostatic discharge:

IEC/EN 61000-4-2 (8 kV)

RF immunity:

IEC/EN 61000-4-3 80MHz-2.5 GHz, (10 V/m)

Magnetic field immunity:

IEC/EN 61000-4-8 (3 A/m)

Aircraft: RTCA/DO-160G, Section 21 (Category M)

RTCA/DO-227 (ETSO-C142a)

Falling height: 1 metre (3.3 feet)

Physical characteristics

With Pad-Pak inserted and HeartSine Gateway, with batteries, attached:

Size:

23.4 cm x 18.4 cm x 4.8 cm
(9.21 in x 7.25 in x 1.9 in)

Weight: 1.285 kg (2.83 lb)

Accessories

Pad-Pak Electrode and Battery Cartridge

Shelf life/Standby life: See the expiration date on the Pad-Pak/Pediatric-Pak (4 years from manufacture date)

Weight: 0.2 kg (0.44 lb)

Size:

10 cm x 13.3 cm x 2.4 cm
(3.93 in x 5.24 in x 0.94 in)

Battery type: Disposable single-use combined battery and defibrillation electrode cartridge (lithium manganese dioxide (LiMnO₂) 18V)

Battery capacity (new):

> 60 shocks at 200J or 6 hours of battery use

Electrodes: Disposable defibrillation pads are supplied as standard with each device

Electrode placement: Anterior - lateral (Adult)

Anterior - posterior or Anterior - lateral (Pediatric)

Electrode active area: 100 cm² (15 in²)

Electrode cable length: 1 metre (3.3 feet)

Aircraft safety test (TSO/ETSO-certified Pad-Pak): RTCA/DO-227 (ETSO-C142a)

HeartSine Gateway Battery

Type: CR123A 3V, Non-rechargeable

Type number: 6205

Designation IEC: CR 17345

Weight (per battery): 17g

Quantity: Four

System: Lithium Manganese Dioxide / Organic Electrolyte

UL recognition: MH 13654 (N)

Nominal voltage (per battery): 3V

Typical capacity load:

100 Ohm, at 20°C, 1550 mAh down to 2V

Volume: 7 ccm (0.43 in³)

Data storage

Memory type: Internal memory

Memory storage: 90 minutes of ECG (full disclosure) and event/incident recording

Review: Custom USB data cable (optional) directly connected to PC with Saver EVO Windows-based data review software

Materials used

Defibrillator housing / HeartSine Gateway:

ABS, Santoprene

Electrodes: Hydrogel, Silver, Aluminium and Polyester

Warranty

AED: 8-year limited warranty

HeartSine Gateway: 2-year limited warranty

Communications

- Wireless 802.11 b/g/n data transfer to LIFELINKcentral AED Program Manager
- USB connection to Saver EVO software through Micro USB port

References

1. Graham R, McCoy M, Schultz A. Strategies to Improve Cardiac Arrest Survival, A Time to Act. Institute of Medicine Report, 2015.
2. Walsh SJ, McClelland A, Owens CG, Allen J, McC Anderson J, Turner C, Adgey J. Efficacy of distinct energy delivery protocols comparing two biphasic defibrillators for cardiac arrest. Am J Cardiol. 2004;94:378-380.

If you purchased your HeartSine Connected AED from an authorized Stryker distributor or reseller, this distributor or reseller will have access to your LIFELINKcentral AED Program Manager account and may receive notifications prompted by the HeartSine Connected AED. Please note that this setting to notify your distributor or reseller can be disabled at ANY time: if you wish to disable this setting, please send a request to Stryker Customer Support to self-manage your site without notifications to your distributor or reseller.

All claims valid as of April 2020.

For further information, please contact your Stryker representative or visit our web site at strykeremergencycare.com

Emergency Care Public Access

AED users should be trained in CPR and in the use of the AED.

Although not everyone can be saved, studies show that early defibrillation can dramatically improve survival rates. AEDs are indicated for use on adults and children. AEDs may be used on children weighing less than 25 kg (55 lb) but some models require separate defibrillation electrodes.

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HeartSine Gateway is not available in all countries.
The HeartSine SAM 500P is not available for sale in the U.S.

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