

# HeartSine® samaritan® PAD 500P

## Connected AED

**Semi-automatic public access defibrillator with CPR Advisor™ and 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.<sup>1</sup> 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, providing specific feedback on the force and rate of compressions.



### Unique Pediatric-Pak

Ensures the guidelines-recommended 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 technology<sup>2</sup>

Advanced electrode technology and SCOPE (Self-Compensating Output Pulse Envelope) 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 may offer 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 1: 150 J  
Shock 2: 150 J  
Shock 3: 200 J

### Pediatric-Pak:

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

### Charge time (typical):

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

## Environmental

### Operating/Standby temperature:

0°C to 50°C (32°F to 122°F)

Note: The temperature of the electrodes could be up to 50°C (122°F) if your device has been exposed to these conditions

### 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 1060 hPa (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 (TSO/ETSO-C142a/EASA.21O.10042190)

**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

**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 (LiMnO<sub>2</sub>) 18V)

### Battery capacity (new):

> 60 shocks at 200 J 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 cm<sup>2</sup> (15 in<sup>2</sup>)

**Electrode cable length:** 1 metre (3.3 feet)

**Aircraft safety test (TSO/ETSO-certified Pad-Pak):** RTCA/DO-227 (TSO/ETSO-C142a/EASA.21O.10042190)

## 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 in<sup>3</sup>)

## 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, et al. 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 authorised 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 06/2023.

For further information, please contact your Stryker representative or visit our website at [strykeremergencycare.com](http://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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**CE 0123** HeartSine samaritan PAD is CE marked (class IIB – 0123) in accordance with EU MDD 93/42 and other applicable directives. It will reclassify to CE class III – 0123 in accordance with the EU MDR on or before the end of the MDR transition period May 2024. Pad-Pak and Pediatric-Pak are CE marked (class IIB – 0123) in accordance with applicable directives.

**CE** HeartSine Gateway is CE marked in line with RED Directive 2014/53/EU.

**CLASSIFIED**  
**UL** HeartSine samaritan PAD: UL Classified. See complete marking on product.

Date of Issue: 06/2023

Made in U.K.

H009-043-005-AH EN-UK

HeartSine SAM 500P is not available for sale in the U.S.

HeartSine Gateway is not available in all countries.

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