

HeartSine® samaritan® PAD 500P

Connected AED

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

Data sheet

A Ready AED and High Quality CPR

Important links in the chain of survival

Sudden cardiac arrest strikes with little time to react and even less time to think. This means an Automated External Defibrillator (AED) must be close at hand, promote quality CPR and be ready to shock. Featuring CPR Advisor™, HeartSine samaritan PAD 500P Connected AED 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**
Provides real-time visual and verbal feedback to the rescuer on the force and rate of CPR compressions during an SCA resuscitation, without the use of an accelerometer.
- **Portable and lightweight**
Most portable AED offered by a leading manufacturer with its light weight (1.285 kg) and compact footprint.



Clinically validated technology

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

- **Highest level of protection against dust and water**
Offers unmatched ruggedness with its high IP56 rating.

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 significant savings over other defibrillators that require separate battery and electrode replacements.
- **8-year AED Warranty**
AED is backed by an 8-year 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, signal quality, 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)

Transportation temperature:

-10°C to 50°C (14°F to 122°F) for up to two days. If the device has been stored below 0°C (32°F), it should be returned to an ambient temperature of between 0°C to 50°C (32°F to 122°F) for at least 24 hours before use.

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: 0 to 4 575 metres (0 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

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 continuous monitoring

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 (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 or LIFENET System. USB connection to Saver EVO software through Micro USB port



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The HeartSine products described in this brochure meet the European Medical Directive requirement.

UL Classified. See complete marking on product.

H009-043-005-1 Intl



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