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 Warranty
  AED is backed by an 8-year warranty.
**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)

**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

**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.