SUCCESS STORY



Tailor-made precision: APS develops a custom thermal printer for Stryker's LIFEPAK 15 Defibrillator

APS teamed up with Stryker to develop a custom thermal printer integrated into the LIFEPAK 15 monitor/defibrillator.This collaboration enabled seamless documentation during critical emergency interventions, enhancing patient trust and compliance with medical standards.

THE CHALLENGE

Stryker required a compact, reliable printer for their LIFEPAK 15 defibrillator, capable of documenting real-time patient data during emergencies. The printer needed to withstand rugged conditions such as ambulances and outdoor rescues while ensuring energy efficiency and regulatory compliance.

THE SOLUTION

APS engineered the DPM415, a built-in thermal printer designed specifically for Stryker's defibrillator. Compact and lightweight, the DPM415 seamlessly integrates within the LIFEPAK 15, providing fast, reliable printing of critical medical data. The printer operates quietly and consumes minimal power, ensuring long battery life during emergency use. APS ensured full regulatory compliance, including ISO 13485 and FDA standards, while optimizing the printer to handle extreme environmental conditions.

THE RESULT

The partnership between APS and Stryker resulted in a robust, efficient solution that enhances the reliability of Stryker's defibrillators. The DPM415 printer delivers high-quality, durable printouts that are essential for medical records and legal documentation. The printer's ruggedness, power efficiency, and ease of use allow emergency responders to focus on patient care, confident in the accuracy and resilience of the documentation process. This collaboration highlights APS's expertise in delivering custom, high-performance solutions in critical medical applications.



«Collaboration with APS was flawless, from specification to final delivery of the printers »

Daniel WHITMORE – Product Manager at Stryker

THE BESPOKE THERMAL PRINTER

APS developed the DPM415, a tailor-made thermal printer that perfectly integrates into Stryker's LIFEPAK 15 defibrillator.



KEY FEATURES OF THE SOLUTION

1.**Compact size and lightweight design**: The DPM415 fits seamlessly within the defibrillator casing, adding minimal weight and bulk to the LIFEPAK 15, preserving its portability for emergency use in ambulances, hospitals, and outdoor settings.

2.**Durability and ruggedness**: Designed for harsh environments, the DPM415 is built to endure shocks, vibrations, and temperature fluctuations. Its robust mechanical components ensure long lasting reliability, reducing maintenance needs during critical situations.

3.**Fast and reliable printing**: The DPM415 offers rapid, high-quality printing of essential medical data such as ECGs and timestamps, with minimal warm-up time. This ensures patient care documentation is swift and accurate, without delaying medical procedures.

4.**Power efficiency**: The printer operates with low power consumption, ensuring it doesn't overly tax the defibrillator's battery. This is vital in emergency scenarios where maximizing device uptime is crucial.

5.**Simple operation and maintenance**: The DPM415 is user-friendly, featuring an easy paper-loading mechanism that minimizes operational complexity during high-stress emergencies.

6.**High-print quality and durability**: The DPM415 produces crisp, durable prints of medical data that remain legible over time. This ensures critical records are preserved for medical review or legal documentation.

7.**Low noise operation**: In emergency and clinical environments, keeping noise levels low is important for maintaining calm. The DPM415 operates quietly, minimizing distractions.

8.**Regulatory compliance**: APS ensured that the DPM415 meets stringent medical device standards, including ISO 13485 and FDA regulations, along with electromagnetic compatibility (EMC) requirements to avoid interference with other medical devices.

ABOUT STRYKER

Stryker is a global leader in emergency medical solutions, offering devices like defibrillators, CPR-assist tools, and data management systems. Their cutting- edge technology has been used in extreme environments, including Mount Everest and the International Space Station. With over one million units in use worldwide, Stryker continues to support first responders, hospitals, and emergency teams in delivering life-saving care.

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