

# COST-EFFECTIVE, ACCURATE, MEDICAL THROWAWAY

## RJC Enterprises, LLC

RJC Enterprises (RJC), based in Bothell, Washington, is a global OEM supplier of fiber-optic sensors for medicine. The small size, high performance, and immunity to electromagnetic noise make RJC fiber-optic pressure and temperature sensors ideally suited for integration into cardiovascular products.



## S stringent Requirements

RJC's fiber-optic one-use sensors, used for intravascular measurements in catheter/guide wire applications, must meet stringent end user requirements for sensitivity and response time. An expendable, portable, and external memory device is required to carry the factory calibration of the fiber-optic sensor to its end application. The portable, throwaway device needed to be:

- ✓ Rugged and extremely reliable
- ✓ Sterilizable
- ✓ Easy-to-use

## The Solution is Key (or in this case a Token)

Initially, RJC Enterprises manufactured its own memory device for its fiber optic sensor products for the "throw-away" medical market. It didn't take long to realize the advantages of using the ready-made LCS Token package from Datakey Electronics. "We are not in the business of making memory devices," said Roger Wolhuis, Manager of Operations at RJC Enterprises. "The Datakey Electronics memory device is commercially available in high volume, and it has the ability to be sterilized—an absolute prerequisite for invasive medical



procedures. The Datakey Electronics memory device not only saves us production effort, it is also pluggable, programmable, and user-friendly—ideal characteristics that ensure easy and quick integration into our sensors."

## Fully-Engineered



The LCS Serial Memory Token inserts into the SR4210 mating Receptacle that has been designed into RJC's fiber optic sensor box. It offers a detent mechanism that gives the user tactile confirmation when an inserted Token is physically engaged, as well as a LOFO contact that may be used to protect the host bus by ensuring that Tokens have made secure contact with the receptacle before any signals are transmitted.



## They Chose Datakey Electronics

By choosing Datakey Electronics, RJC was able to procure a proven, off-the-shelf product that enhanced their system by providing a data transfer device that was inexpensive enough to throwaway. Additional features that make the Token well-suited for this application are its ruggedness and ability to tolerate the harsh hospital environments. In addition, its small size and simple interface were essential for use in this desktop unit.



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