A HISTORY OF A UNIQUE COMPANY

SYMCOM, INC.

In 1972, a dairy farmer in Minnesota contacted a consulting engineering firm in Minneapolis to help them solve a problem. The problem was that their three phase dairy pump motors were burning up due to frequent single phasing. The firm's best electrical engineers found that the products on the market at that time were substandard and did not provide the guaranteed protection that the farmers needed.

The first protection device that the engineering firm developed was known as the "PORC" (Power Outage Restart Control) unit and was originally rather large and cumbersome. Through much time and effort by several dedicated engineers and miniaturization through new available technology, the unit was improved and reduced in size.

Thus, the consulting engineering firm's engineers devised a motor protector which could sense a single phasing condition better than any other motor protector on the market at that time. This was the birth of the first MotorSaver Model 1000.

Seeing an opportunity, the consulting engineering firm started a subsidiary based upon the first MotorSaver in 1974. In 1982, SymCom (Symmetrical Components), spun off as its own entity. Until 1987, the majority of SymCom's business came from the electrical markets such as industrial plants, panel builders and electrical contractors.

In 1987, the PumpSaver was developed to provide dry run and power problem protection specifically for the water well industry. In January of 1995, the PumpSaver underwent its first renovation into the highly sophisticated, compact pump protector it is today. PumpSaver products now protect pump motors from dry run (dry well), dead head, jammed impeller (overload), high voltage, low voltage, rapid cycling, single phasing, current unbalance and phase reversal.

SymCom also provides diagnostic tools which allow an installer to extract information such as voltage, current, power factor, last fault and motor efficiency.

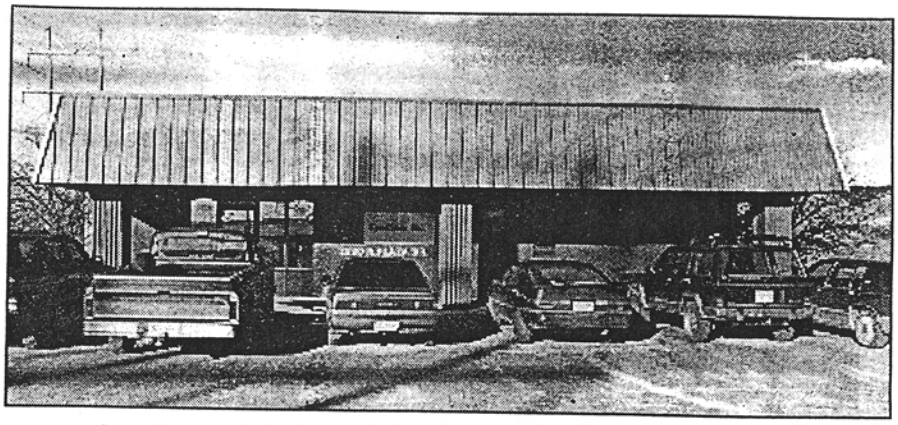
SymCom's motor protection devices have evolved from discreet component "boat anchors" into the micro-processor based highly advanced products on the market today. All software used in their product lines are copyrighted. The products stand apart from other manufacturer's products because all three phase motor protectors will detect a single phasing condition regardless of regenerated voltages. This feature evolved from the company's many years of experience in the motor protection field.

Product lines have been expanded to load sensing, electronic overload relaying, building automation and industrial control communications. Many HVAC manufacturers install SymCom products to protect the electrical components on their equipment.

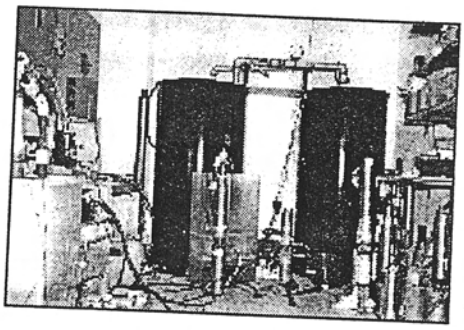
SymCom has distribution and representation across the USA, Canada, Mexico, South America, Australia, the Middle East and the Philippines.

SymCom, Inc. is a small but progressive and growing manufacturing company located in Rapid City, South Dakota. It was started by Dunham Associates, Inc. the consulting engineering firm with offices in Rapid City, South Dakota, Minneapolis, Minnesota and Las Vegas, Nevada, and is still controlled by George Dunham, mechanical engineer, Nancy and Charlie Dunham, electrical engineers. Charlie, George and Nancy's son, is SymCom's Vice President and oversees the day to day operations.

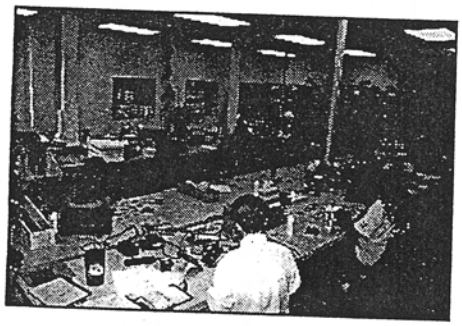
RRO:rb



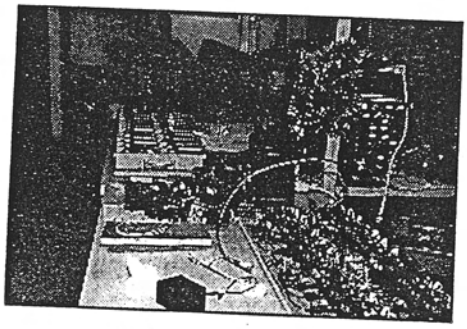
SymCom's 10,000 sq. ft. manufacturing facility in South Dakota.



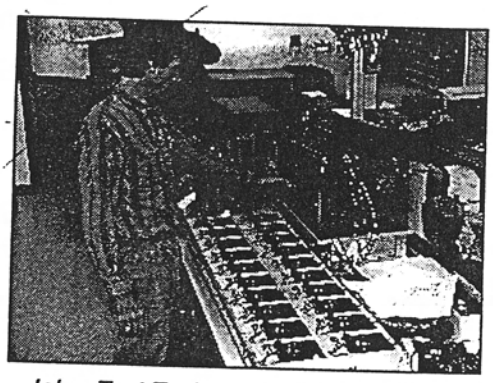
R&D facility that houses large pump test tanks.



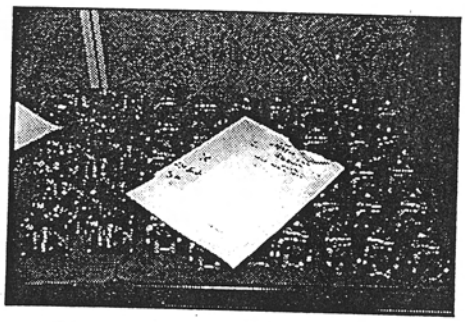
Products are designed and manufactured in one location.



PumpSaver® products being tested before shipment.



John, Test Technician, testing a batch of PumpSaver® Model 233s.



PumpSaver® Model 231 Insiders being readied for shipment.

Warren, Customer Service Administrator, evaluating a damaged return item.

Black Hills Area ASHRAE Chapter
Past President Personal History

Gunar P. Dzintars

Date of Birth:	April 12, 1953
Place of Birth:	Waterville, Maine
Home Address:	623 Dakota Drive, Rapid City, SD 57702
Business Address:	City/School Common Energy Plant 434 N. Mt. Rushmore Road Rapid City, SD 57701
College or University, Year:	South Dakota School of Mines and Technology Rapid City, SD 1976
Personal Status:	Married to Susan Sullivan, 1993

Professional Background/History:

He started with Northwest Pipe Fittings in June of 1976 after graduation from the S. D. School of Mines and Technology with a B. S.degree in Mechanical Engineering. They wanted to start an over-the-road salesman for a five state area to represent them to the water and natural gas utility companies. These companies are more technically oriented than the plumbing companies that they normally serve so they decided to hire an engineering graduate. After six months they mutually decided that the market they were pursuing for wasn't viable.

He then started with the City of Rapid City in January of 1977 in the position of Assistant Manager of the City/School Common Energy Plant. His immediate supervisor was Bill Craig who was also in the midst of helping start the Black Hills Area Chapter of ASHRAE. The Energy Plant is a shared heating/cooling plant that also operates as a central facilty management system. He became the Energy Plant Manager in 1980 when Bill Craig moved to another position. After four years under Bill's supervision he passed his Professional Engineers exam in August, 1981.

He continues to serve as the Manager of the Energy Plant. This plant directly provides heated and chilled water for heating and air conditioning the Central High School and the Rushmore Plaza Civic Center. The two buildings total 615,000 ft^2. The facility management system located at the Energy Plant monitors and controls a total of 28 City and School buildings and facilities that total 2,000,000 ft^2. He supervises five full-time employees at the Energy Plant and consults with the City and School systems on HVAC and energy use related matters.

ASHRAE Background/History:

Gunar joined ASHRAE in May of 1977 as a member of the Black Hills Area Chapter.He was an Associate Member of ASHRAE. In 1979/80 and 1980/81 he served in the Secretary and Treasusrer positions. In 1981 he bacame a full Member of ASHRAE. The Black Hills Area

Chpater hosted the Regional CRC for the 1979/80 year when Bill Craig was president. Since Bill was Gunar's manager, Gunar was involved in many of the preparations for the CRC.

Gunar was elected as President of the Black Hills Area Chapter of ASHRAE for the 1981/82 year and again for the 1982/83 year. This was foundation building time for the the local chapter. The Black Hills Area Chapter is a small chapter and we were trying maintain our membership and the involvement/participation of our members. There was only a small group of members to do the work at this time hence Gunar served two successive terms. Gunar continues to attend ASHRAE events of interest, but is not actively involved in the operation of the Black Hills Area Chapter due to professional and personal commitments.

Gunar primary interest in ASHRAE is the implementation of the BACNet standard, because he has spent all of his professional career working with facilty managment systems and desires a level playing field for the bidding, implementation and operation of facility management systems.