



Order from:

**C A Briggs Company**

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*...your electronic control & protection specialists*



### Voltage/Phase Monitors

Adverse line conditions such as high and low voltage, unbalanced voltage, phase reversal, and phase loss may severely damage equipment. SymCom single and three-phase voltage monitors provide basic protection against equipment failure caused by line-side voltage faults and rapid cycling (select models also protect against load-side voltage faults). This family of voltage monitors is designed to prevent equipment from starting or shut it down after startup before adverse conditions cause equipment damage.



### Enhanced Power Monitors

Many pumping applications require advanced power monitoring and control. SymCom enhanced power monitors provide all of the protection and features included with an enhanced overload relay, but are designed specifically for applications where voltage, current, and power factor vary considerably. This family of enhanced power monitors provides optimum protection in these adverse conditions.



### Enhanced Overload Relays

Monitoring, control, and protection are critical and necessary functions in motor and pumping applications. SymCom single and three-phase UL listed enhanced overload relays monitor for both line side voltage problems and load side current faults, providing an added layer of protection over voltage monitors and other basic overload relays. All SymCom overload relays are user configurable and cover a wide range of voltages and currents, making them the most versatile in the industry. A standard feature of the entire family of SymCom overload relays is a communications port which provides easy connectivity to a SCADA system, PLC, or virtually any network.



### Remote Monitoring, Communications & Software

Accessibility and safety are key concerns when working with motors, pumps, and control panels. SymCom communications modules, software, and remote monitors provide accessibility and safety for enhanced overload relays and power monitors through many common industrial protocols. In addition to providing communications, many of these modules also provide additional inputs and outputs for added control. Not only do SymCom remote monitors eliminate the need to open a control panel door, thus reducing the risk of arc flash and exposure to high voltages for maintenance personnel, they include additional real-time, fault, and event monitoring capabilities.



### Load Sensors

SymCom load sensors measure current levels to determine feed rates, tool wear, loss of prime on pumps and many other types of overload and underload conditions. These load sensors are useful as proof relays to verify that current is flowing, and are available with adjustable setpoints and trip or restart delays.





### Intrinsically Safe Relays / Controllers

Applying electronic controls in hazardous environments can be difficult. Fortunately, SymCom intrinsically safe relays and controllers are specifically designed to interface controls between hazardous and non-hazardous areas. Intrinsically safe relays limit the energy that is provided to the hazardous area, thus reducing the potential of a spark. SymCom provides several models of intrinsically safe relays and controllers offering distinct output relay configurations for a variety of systems.



### Seal Leak & Leak /Temp Relays

In submersible pump applications, early indication of seal failure is critical to allow maintenance of the pump before additional damage occurs. SymCom seal leak and leak/temp relays provide protection against seal leaks and over temperature by monitoring sensors within the pumps and providing early warning or disabling the pumps.

### Liquid Level Controls

SymCom liquid level relays provide differential level control for pumping applications using either floats or conductance probes. Liquid level controls are designed for both pump up and pump down systems.



### Pump Controllers and Alternating Relays

Multiple-pump applications often require balanced runtimes and redundancy. SymCom provides pump controllers (both intrinsically safe and non-IS) that are designed to handle multiple pump applications. SymCom also provides alternating relays which are designed to balance the run time between two independent loads, typical in many pumping and compressor applications. By balancing the runtimes, redundant equipment is equally exercised to provide greater system reliability.



### Current Monitors

Heater element failure, loss of load, peak power loads, and load jams are just a few examples of faults motors may be subjected to. SymCom single and three-phase current monitors provide protection against these load side faults and others when the motor is running. SymCom three-phase monitors protect against single-phasing and current unbalance problems that can be caused by voltage supply problems, bad contactors, or loose wiring. They also provide very reliable overload and underload protection.



### PumpSavers®

Pumps are often exposed to hazardous conditions and situations that can cause severe damage to the pump. SymCom single and three-phase PumpSaver® products will protect and disable a pump in these situations, including high or low voltage, rapid cycling (turning the pump on and off too often), dry well (well runs dry during pumping cycle), or dead head (the pump discharge is blocked). Many PumpSavers® are available in NEMA-3R enclosures.





**Additional Products:** SymCom also provides load sensors, current transformers, timers, and much more...

**Custom Solutions:** Looking to upgrade or improve an existing product? SymCom specializes in the design and manufacture of custom controllers. Custom controllers are an integration of many electrical or electronic components into a more condensed, feature rich product. Custom controllers drastically reduce component costs, panel space, assembly time, and provide system intelligence not possible when using individual components. SymCom has developed custom solutions for many industries including: motor control centers (MCC), pumping panels and medical and dental industries to name a few. We can help increase system flexibility, reliability, functionality, and diagnostics through our custom solutions.

**The SymCom Story:** Since 1974, SymCom has been a leader in electronic control and protection for all types and sizes of motors and pumps. Often recognized by our brand names MotorSaver® and PumpSaver®, SymCom's products have enjoyed world-wide customer acceptance.

Our reputation is built on innovation that exceeds our customers' expectations while maintaining the highest of quality and the most reasonable prices in the industry. We top this off with first-class technical support through our internally staffed help desk and a full 5-year warranty.

If it has to be right and be right the first time, trust SymCom... your electronic control and protection specialists, to deliver and stand behind what we do!

Proudly Represented By:

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