



Practical Control Designs for Today's Demanding Process Systems

For over 55 years, Mokon has set the standard in the design and manufacture of high-quality thermal fluid systems for plastics, food processing, pharmaceutical, packaging and many other industrial applications. Over the years, our customers have come to understand that our Design is the Difference when it comes to accurately controlling process temperatures using circulating liquid heating and cooling systems.

Mokon's engineers have applied their knowledge and expertise in process heating and cooling systems to develop standard process control panels as a response to the needs of our diverse customer base. In addition, Mokon's application engineers also work directly with clients' technicians and engineers to determine what is required to design a system specific to their process. Whether a simple power panel is needed or something more complex, Mokon will present a comprehensive outline of the control panel proposal so our customer has full insight of what's going to be provided.

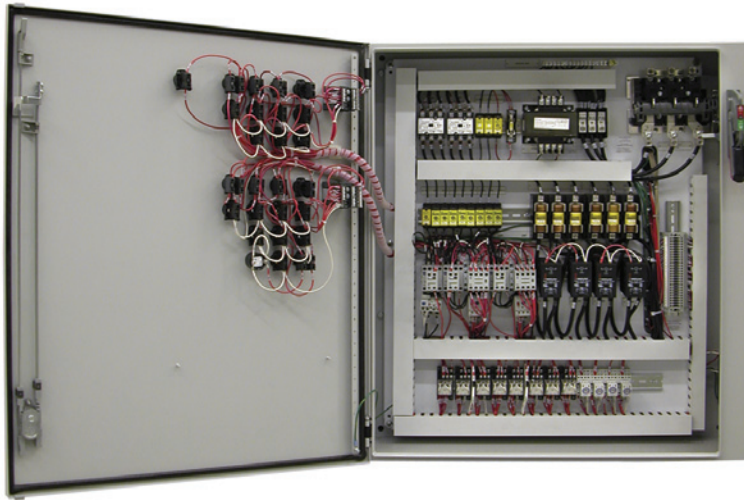
The traditional Mokon value you have come to know and trust will be evident from the receipt of our proposal and drawings for approval to the delivery of a well laid-out and logical control system that meets your specifications. One thing you can count on is that Mokon will develop a cost-effective control system to suit your application!



Designed to Perform. Built to Last.

Power and Process Control Systems for Commercial and Industrial Applications

- ▶ **UL and cUL listed panel**
- ▶ **ESA electrical approval and CSA compatibility**
- ▶ **NFPA 79: electrical safety standard for industrial machinery**
- ▶ **UL 508A, NEC, and CEC standards**
- ▶ **CE Mark and directives compliant**
- ▶ **NEMA rated enclosures for hazardous and non-hazardous locations**
- ▶ **Standard, custom, and pre-engineered panels**
- ▶ **Local or remote panels**



Capabilities

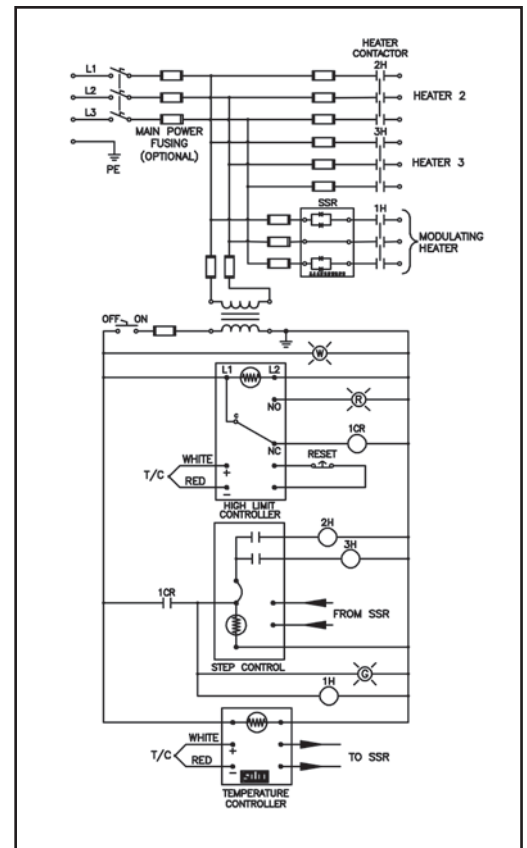
- UL 508A Certification - Open and Enclosed types
- UL NRBx Certification - Intrinsically Safe designs
- UL NNNY Certification - Hazardous Location designs
- Primary voltages from 120V to 600V
- Secondary voltages include 24V, 120V, 208V and 240V
- Single or three phase circuits
- NEMA 1, 3, 4, 4X, 7 and 12 rated enclosures
- Explosion proof "X" and "Z" purge systems
- Wash down designs with stainless steel enclosures

Typical Components

- Fused and unfused disconnects – through the door and flange mounted
- Circuit breakers
- Power distribution blocks
- SCRs, VFDs and PLC interfacing
- Redundant heater contactors
- Push to test lights and buttons
- Allen Bradley flex I/O capabilities
- Stacking lights
- AB "PICO" relay saving devices
- Cubed fusing
- Terminal blocks for customer interfacing
- OEM-specified construction materials
- Special dimensional requirements
- Customized cabinetry and colors
- Electrical enclosure ventilation fans with filtration
- Panel heaters and coolers

Control Features Available

- Various communication capabilities
- Linear: 0-5V, 0-10V, 4-20mA
- Serial: RS485, RS232
- Modbus, Profibus, Ethernet
- Alarm capabilities
- Programmable logic controllers
- Customer preferred controls



Typical electrical schematic



Custom system in a hazardous location

Contact Mokon for detailed information on power and process control panels, plus the following accessories:

- SCR, SSR, thermocouple and RTD sensors
- Contactors, control circuit transformers
- Panel cooling fans and heaters
- Process and limit controls, extension wire

Technical data shown is subject to change without notice. The company will endeavor to supply the equipment as illustrated but reserves the right to make dimensional and other design changes as required.



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