



THERM-X | *The Temperature Specialists*

Our integrated engineering solutions put you into *CONTROL* of your process

Therm-x has an established engineering and manufacturing capability to provide our clients with complete **"turnkey"** integrated process solutions. Therm-x's integrated systems team is focused on the design and fabrication of process control systems to meet our customer's unique requirements for managing thermal specifications and data acquisition.

Therm-x not only offers a complete line of modular and scalable **"off the shelf"** controls products, but also possess a multi-disciplined engineering team with extensive thermal experience that will collaborate with our client's engineers to design and develop specialized process control systems from design through prototype to full production launches.



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THERM-X
THE TEMPERATURE SPECIALISTS

INTEGRATED PROCESS CONTROL SYSTEMS



integrated process control systems

Benefits of Using *Therm-x* Integrated Engineering Solutions

- You will be assigned your own technical team and program manager to guide you through and manage the entire project from start-to-finish.
- Configurable and expandable proprietary solutions as your requirements change and grow.
- Controls solutions that can easily be integrated with your host system.
- Data tracking/logging capabilities.
- Safety compliant solutions for most industry requirements.
- Precise temperature control and monitoring devices.
- Complete documentation and service manuals, including software instructions and training as needed.

Standards and Certifications ** 3RD party certifications available upon request.*

Therm-x designs and builds their integrated control systems in adherence to the following standards and certifications:

- UL® - Underwriter's Laboratories* (UL 508A)
- FM - Factory Mutual
- NEMA - National Electrical Manufacturers Association
- NFPA - National Fire Protection Association (NFPA 79)
- AS 9100 - Aerospace*
- NEC - National Electric Code
- CE - European Union Mark of Conformance*
- IEC - International Electrotechnical Commission
- SEMI - S2 - Semiconductor Equipment and Materials Institute

Applications & Market Segments

- Semiconductor Processing Equipment
- Automotive Engineering
- Industrial Process Applications/Refineries
- Food/Beverage Process Equipment
- Chemical Conditioning/Monitoring
- Alternative Energy Industries
- Ovens/Furnaces/Kilns
- Life Sciences & Bio-Pharmeceutical Development
- Packaging/Adhesion markets
- R&D Laboratory requirements

Portable Control Units

Therm-x portable control units have been engineered and designed to allow the **R&D Process Engineers** to have the maximum flexibility when it comes to thermal control and data acquisition in regards to their temperature process parameters and management.

FEATURES:

- Compact size with mobility and flexibility
- Fully self contained unit that can be placed anywhere
- Control and heater fuses
- Variable T/C and RTD input available as required
- Serial/Ethernet communications available
- Control heater On-Off switch
- Integrated EMO
- Up to 15 AMP rating



Rack Mount and Industrial Control Panel

Therm-x' rack mount control panels (RMC) have been engineered and designed to allow the **Equipment Engineer** to have the maximum flexibility when it comes to thermal control and data acquisition in regards to their temperature requirements and localized process management. Choose from various standard rack sizes or design a custom enclosure with the help of our fabrication engineering department:

FEATURES:

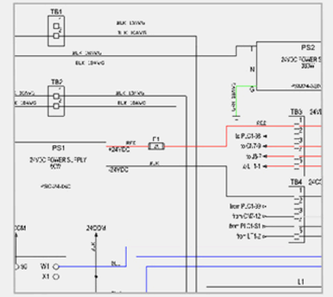
- Various standard rack mountable sizes available
- Fully self contained unit that can be facilitated easily
- Pre-wired for fast start up and connection to host
- Branch circuit protection
- SSR or SCR power controllers available
- Set -Off-On with integrated pilot lights
- Integrated EMO
- 120/200/240/480 VAC single or 3 phase options
- Variable T/C and RTD input available as required
- Serial and ethernet communications available
- Temperature ranges between 0-2400° F
- Engineered with all Therm-x safety standards



Integrated Process Solutions

Therm-x' integrated process solutions (IPS) allow our customers to work together with a team of technical and experienced Therm-x engineers to design and develop unique temperature management systems that meet every process requirement. When it comes to thermal control and data acquisition related to your temperature process parameters, Therm-x' team works as a valuable extension of your engineering resources. All IPS systems have a complete wiring schematic provided with every unit along with the technical support of our engineering team.





FEATURES:

- Various standard Nema-rated box sizes available
- HMI and data logging
- SSR or SCR power controllers available
- Integrated EMO
- Variable T/C and RTD input available as required
- Ready for fast installation/start up and connection to host
- Fully self contained unit that can be facilitated/serviced easily
- Design adheres to UL 508A standards
- Branch circuit protection
- Set -Off-On with integrated pilot lights
- 120/200/240/480 VAC single or 3 phase options
- Serial and ethernet communications available
- Engineered with all Therm-x safety standards