

CASE STUDY

PORTABLE HEATER CONSOLE



BACKGROUND

GTH was recently contacted by a local semiconductor manufacturer. They were seeking a heater and temperature control solution for their testing and manufacturing processes. They approached GTH due to our alliance with Watlow, one of the industry's leading manufacturers of thermal controls.

CHALLENGE

The client needed a portable unit with a heater probe and temperature control. They wanted a unit small in size so it could be carried and used in various locations around the facility. Their application required tight control, accuracy and repeatability.

SOLUTION

The GTH Account Manager assigned to this project was able to come up with a solution utilizing the Watlow 1/16 DIN PM6 temperature controller and a small Watlow heater unit. The PM6 is a panel mount controller offering integrated functionality as well as a wide range of serial communications capabilities. This controller / heater combination allowed for state-of-the-art control in a small, portable package. The GTH UL panel shop designed and built the console to be plug and play with a line cord, mini thermocouple jacks, quick connects, and an on/off rocker switch. The customer was also given the option for a two controller configuration that included a limit controller for safety and redundancy. While this was a comparatively small project, the GTH panel shop put it through the same rigorous quality assurance process to ensure the final product met the client's specifications.

BENEFITS

The Watlow components selected by GTH were a perfect fit for this console. Quality and reliability were critical to the client but they also saw a number of other advantages including:

- Plug-and-play configuration
- Portable, lightweight design
- Easy to use setpoint programming
- Convenient quick connects
- Easy to read display

