



Temperature Controllers

Temperature Controllers - Industrial

Temperature controllers are used for monitoring and controlling industrial production processes. Also known as Loop Controllers or PID Controllers, the two most common sizes are 1/16 and 1/4 DIN. Typically, these types of controllers are mounted on the electrical enclosure door so the operator interface can be seen easily as well as programmed to your necessary application specifications.

We will focus on industrial controllers used to control temperature, their functions, and applications. However, the state-of-the-art technology advances of these types of products can also allow you to accurately control other variables such as pressure, force, humidity, and displacement.

Temperature Controllers - Features

With a wide range of available brands and options it is good to have a basic knowledge of what you require for your process. You may only need a basic controller for a simple resistance heating application or analog (4-20ma) output control of a single modulating valve. Some processes require or benefit from a high feature model with logic functions, profile programming, timers, or communication capabilities. There are also controller models that include web servers, trending temperature displays, data recorders and touch screen graphical displays.

Temperature Controllers - Examples



[Gefran 650L High Limit Controller](#)



[Gefran 1350 Temperature Controller](#)



[Gefran 650L Product page](#)



[Gefran 1350 Product page](#)



[Honeywell UDC120L Product page](#)



[Honeywell UDC2500 Product page](#)

Once you know what features are needed, there are two aspects to getting the temperature controller ready for use. The first is selecting the physical configuration of the Controller, the second is programming the controller.

Checklist of Physical Configuration Details:

DIN Size?	Ex: 1/4 DIN
Inlet Power?	Ex: 120 VAC
Input Signal?	Ex: Type J Thermocouple
Output Signal?	Ex: Analog/4-20ma
Additional Outputs?	Ex: Second Relay/Alarm
Specialty Functions?	Ex: Ramp/Soak or Single Point
Environmental Rating?	Ex: NEMA 12
Communications?	Ex: Modbus

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