



AT-NEA PROCESS CONTROLLERS



Typical applications include:

- Heat Trace for gas lines
- Regulator Heaters
- Heat Panel applications
- Nitrogen Heaters
- Any application requiring temperature control

Accurate Gas Control Systems offers an electrical controller assembly with single or dual channel capabilities suitable for Heat Trace applications, Regulator Heaters, or any application requiring controlled electrical power with a feedback mechanism.

The Proportional-integral-derivative (PID) microprocessor based temperature controller is fully programmable either manually, or using the advanced Auto-tune algorithm function to tune all five control parameters automatically.

Power switching is accomplished via a solid state relay connected to the controller's primary solid state driver output allowing fast response control modes. A normally open mechanical relay is connected to the controller's secondary output providing a safety alarm circuit for interrupting power to the application in the event of a high temperature alarm. The controller circuit is fused to protect the application and the controller in the event of a short-circuit or power failure.



System Specifications and Features

Power Handling Capacity:	1625 W per channel (120 VAC Models)
Minimum Circuit Requirements:	100-125 VAC, 15 A, 50/60 Hz per channel (120 VAC Models) 208-240 VAC, 10 A, 50/60 Hz per channel (220 VAC Models)
Controller:	1/16 DIN, Microprocessor based PID Controller
Protection Devices:	15A-250V FA ceramic fuse – panel mount (application & assembly)
Temperature Sensor:	Type J or K Thermocouple 12ft
Primary Output, SP1:	Solid state driver connected to an external solid state relay
Secondary Output, SP2:	SPDT mechanical relay connected to a SPDT mechanical relay
Dimensions:	Single Channel 11.5" high x 7" wide x 9.5" deep

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