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◆ Protocol Plus™

A Microprocessor Based Oven Controller



Protocol Plus™ is a microprocessor based temperature control system designed to make oven operation simple and flexible. It provides a level of temperature control, versatility, and operational simplicity unmatched in the industry.

Easy To Operate

Protocol Plus™ is easy to use for both simple and complex applications. Temperatures are displayed in either Fahrenheit or Celsius on a large, bright LED panel. Six indicator lights provide an at-a-glance review of the oven's operating status. A 32-character LCD display provides detailed information on oven status and simplifies programming of temperature and time parameters with user-friendly prompts.

Four Operating Modes

Protocol Plus™ provides four operating modes in one versatile, easy-to-use package:

- ◆ Single Set Point: Oven operates continuously at a fixed temperature until turned off.
- ◆ Single Set Point With Timer Control: Oven operates at a fixed temperature for a user-selected time period, then automatically turns off.
- ◆ Auto-Start: Oven automatically starts based on a preset time and day.
- ◆ Multiple Set Points: Temperatures increase or decrease as defined by one of eight pre-programmable "ramp and soak" profiles. Each profile contains up to eight ramp and soak segments. The profiles can be linked to provide additional temperature combinations.

FEATURES AT A GLANCE

- ◆ Large LED temperature display
- ◆ Six status indicator lights
- ◆ 32 character LCD display of set points and program status
- ◆ Can be programmed for multiple set points
- ◆ State-of-the-art microprocessor technology

Fast Start-Up

Protocol Plus™ lets you start the oven with the push of a button. All temperature settings and programming are automatically set to the values used in the previous session.



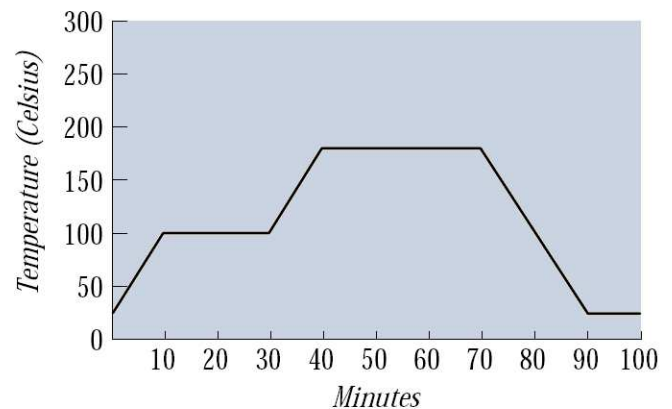
STANDARD FEATURES

- ◆ Calibrating, tuning, and self-diagnostic capabilities
- ◆ Two levels of password security control operator access to program parameters
- ◆ High-limit control turns off the heater if the temperature exceeds user-defined limits. Separate thermocouple and control from main operating controller.
- ◆ An output signal can transmit temperature data to a user-supplied recording device
- ◆ A recovery system terminates, resumes, or suspends operations when power is restored after a power failure
- ◆ Real time clock is built in with auto-start capabilities that allows starting the heating cycle at a specified time of day

OPTIONAL FEATURES

- ◆ Remote start and programming capabilities via a modbus communications link to a personal computer (RS485/422/232)
- ◆ Remote start via digital input from an external device other than a P.C.
- ◆ Four output relays that signal user-specified events/alarm to external alarm devices
- ◆ Protocol Manager™ Monitoring and Data Acquisition Software (use with P.C.)

RAMP AND SOAK PROFILE SAMPLE



PROTOCOL PLUS™

SPECIFICATIONS

Listing	UL, C-UL, CE
Thermocouple	Two Type J Thermocouples -73 ^o to 760 ^o C (-100 ^o to 1,400 ^o F)
Accuracy	+/- 1 ^o C at 25 ^o C after calibration
Method of control	Three mode PID. Two thermocouples provide independent control of temperature and high limit protection

PROTOCOL MANAGER™

Monitoring & Data Acquisition Software

Protocol Manager™ reduces costs through improved process and quality control. Protocol Manager™ software enables communications between a personal computer and up to 32 Despatch ovens equipped with Protocol Plus™ controllers. The user friendly software allows oven control, recipe download and data logging.



SERVICE AND TECHNICAL SUPPORT

service parts: 1-800-473-7373
international service/main: 1-952-469-8230
service fax: 1-952-469-8193

service@despatch.com

GLOBAL HEADQUARTERS

phone: 1-888-DESPATCH (1-888-337-7282)
international/main: 1-952-469-5424
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Despatch
INDUSTRIES



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