

3500

MODELS

Ideal for :

- Furnaces
- Environmental chambers
- Autoclaves
- Fermenters
- Reactors
- Melt pressure
- Process applications

Features :

- 2 PID loops
- 50 Programs
- Precision PV input
- Carbon potential
- Maths/logic/timers
- Custom user interface
- Recipes
- Modbus RTU
- Ethernet Modbus TCP
- Profibus DP
- DeviceNet



Advanced Controller/Programmer Specification Sheet

Eurotherm's latest range of advanced process controllers provide precision control of temperature and a host of other process variables together with an abundance of advanced options making it the most adaptable product in its class.

The emphasis is on flexibility yet the 3500 controllers still maintain ease of use. A simple 'Quick Start' code is used to configure all the basic functions essential to controlling your process. This includes input sensor type, measurement range, control options and alarms making 'Out the Box' operation truly achievable. More advanced features are configured using a PC based graphical configuration tool enabling users to pick function blocks from a library then connect them together using soft wiring.

The large 5-digit display provides a clear and unambiguous indication of the process value. A four-line message centre provides custom or standard views of important information to the user while vertical and horizontal bargraphs provide at a glance visual indication of the process.

Dual Loop

Two independent PID loops make the 3500 ideal for interactive processes such as those found in carburising furnaces, environmental chambers and autoclaves. The loops may also be 'soft' wired together in creative ways to create cascade, ratio or other intelligent control strategies

Setpoint Programmer

Heat treatment and other processes often require the ability to change setpoints with time. The dual loop 3500 has two programmers which can be configured as synchronised or independent programs. 50 programs with up to two channels can be stored with a total of 500 segments.

Input/Output Flexibility

A range of plug-in I/O modules caters for individual application requirements minimising stock and spares holding. A total of fifteen module types, including relay, logic, triac and analogue, are available to fit into either three slots on 3508 or six slots on 3504.

Carbon Potential

The 3500 calculates carbon potential from measuring both the oxygen concentration and temperature of a furnace using a zirconia probe. This enables a dual loop 3500 to be used to control both carbon potential and temperature in an atmosphere controlled furnace.