



Laboratory Equipment Pty Ltd

3216 PID Controllers with Scrolling Safety Messaging

- 4 x 4 programmable Controller
- Logic I/O, Relay & Analogue O/P
- [Set point Profiling](#)
- [Zone Control Master](#)
- [HOT RUNNER Control](#)
- [Easy to use and configure](#)
- PID, self-tuning and alarms
- ModBus Serial Comms (RS232/RS485)
- Digital Input and CT Feedback



EUROTHERM QUALITY & PERFORMANCE

The new 3216 1/16th DIN controller provides a new level of user convenience. The **scrolling safety messages** deliver plain language messages to let operators and engineers alike know exactly what is happening to the process.

RECIPES

The **Quick Start Wizard** makes configuration simpler than ever. At initial power up the configuration is displayed on the lower display with clear descriptive text providing scrolling help for each setting.

Universal inputs enable the simple selection of any standard thermocouple, 2 or 3 wire Resistance Thermometer or process input. A custom linearisation can be installed using the simple PC tool, [iTools](#).

The **Load Current Transformer Input**, CT input, provides the ideal method to monitor load current and provide immediate indication of load conditions. Partial load failure, heater open circuit or thyristor short circuit can each be indicated by clear scrolling operator messages and relay output.

The operator interface is fully configurable enabling any parameter to be promoted for immediate operator access on level 1 or password protected level 2. This provides for the simplest solutions right through to sophisticated applications.

The new **three color LCD display** provides clear indication of process variables. The upper display shows the process measured value while the lower display can be set to display a range of parameters including, setpoint, time remaining and current.

The **communications option** provides full system integration through the industry standard modbus protocol.

Three outputs can be configured to provide any combination of heating, cooling and alarm. The Logic output can also be used as a Digital Input.

2416 Programmable Temperature and Process Controller

**Ideal for Single and multi-zone ovens,
furnaces, and kilns**

Set point programming

PID and valve positioning control

**Serial communications and PDSIO PID
and valve positioning**

**Modular I/O options ModBus (RS232,
RS485 & RS422) DeviceNet & PSDIO
Communications**

The 2416 is a high stability programmable controller with an extensive range of options. Either PID, on/off or motorized valve control can be configured, for electrical and gas heating applications. Dual PID settings, advanced 'one shot' and continuously adaptive tuning are available.

The controller employs universal inputs with INSTANT ACCURACY™ and accepts a range of plug-in modules for heating, cooling, analog retransmission, second process value input and remote setpoint. High speed Modbus® and ASCII communications provide easy connection to PLC™ or PC based supervisory systems.

ADVANCED LOAD DIAGNOSTICS

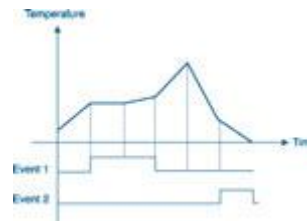


Eliminate ammeters using [PDSIO®](#) current monitoring facility. Heater current may be displayed and open and short circuit faults detected and alarmed.



Multi-zone programming can be implemented using PDSIO® retransmission to deliver a master setpoint to one, two, or three client controllers, with holdback from any client if the temperature deviates from the setpoint by more than a set value.

Digital communications with Modbus® RTU protocol is available for easy connection to PLC™ or PC based supervisory control and data logging systems.



1, 4 or 20 setpoint programs can be stored with 16 ramp-dwell segments with 3 or 8 event outputs.

