

3200

SERIES

Ideal for

- Extrusion
- Ovens
- Chillers
- Trace heating

Features

- Heater current monitoring and load diagnostics
- Timer functions
- 8-segment programmer
- MODBUS communications
- Setpoint programmer
- DC control or retrans.

Specifications

Dimensions (mm)
 3216: 48W x 48H x 90D
 3208: 48W x 96H x 90D
 3204: 96W x 96H x 90D

Control modes
 PID or ON/OFF

Supply voltage
 100-240Vac, or 24Vac or dc
 -15% +20%. 6 watts max

Operating ambient
 0-55°C, 5-85%RH

Inputs
 Refer to the order code

Output ratings
 Relay: 2A, 264Vac resistive
 Logic: 40mA, 12Vdc
 (non-isolated from PV)

DC: 0-20mA into 500Ω max.
 (non-isolated from PV)

Panel sealing
 IP66, NEMA4 Plug-in from front

Current transformer input
 50mA ac



Temperature controllers with help text

Available in three standard DIN sizes the innovative 3200 controllers provide precise temperature control with a host of options. The front panel 'ammeter' on the 1/8 and 1/4 DIN sizes displays the heater current or the output power demand.

The emphasis is simplicity. A simple 'Quick Start' code is used to configure all of the functions essential to controlling your process. This includes the input sensor type, temperature range, heating and cooling outputs, and alarms.

In operation every parameter is accompanied by a scrolling text message describing its function. This is available in English, German, French, Spanish or Italian. Custom event and alarm messages can be downloaded from a PC.

Heater current Monitoring and diagnostics

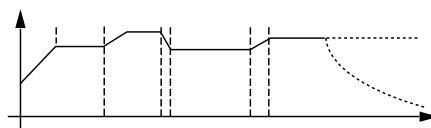
The current transformer input provides display of the heater current and a health check on the load. Partial load failure, heater open circuit and SSR (Solid State Relay) short circuit are detected and displayed as scrolling alarm messages.

Timer

The internal timer is configurable as an interval timer, delay timer or to provide 'soft start' for hot runner control.

Setpoint programmer

Heat treatment profiles can be programmed using the 8-segment programmer. Holdback at the beginning of each dwell segment can be used to guarantee the soak periods. Master digital communications provides an economical method of transmitting the programmed setpoint to any number of slave controllers.



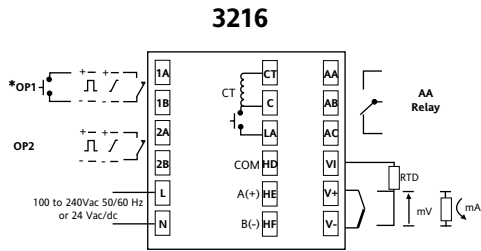
Recipes

38 parameter values can be captured and stored in 5 different recipes each with a customer defined name. Applications include storing multiple configurations and holding multiple ramp-dwell programs.

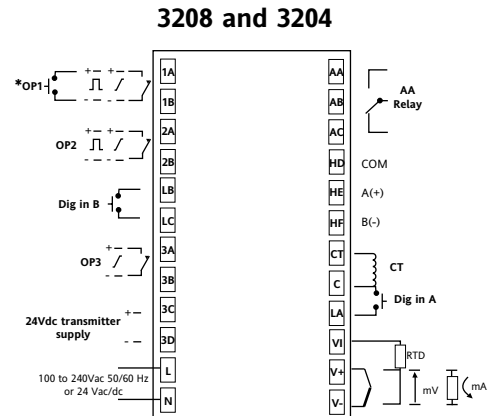
Configuration wizard

A PC based configuration wizard is available. It provides an easy to use, instructive guide to all the functions in the controller.

Rear terminal connections



*OP1 logic output can also be used as a contact closure input



Ordering code

Model Number	Function	Power Supply	OP1	OP2	OP3	AA Relay	Options	Fascia Colour	Manual Language	Product Language
3216	1/16 DIN unit	VH 100-240Vac	L	R	X	X	XXX	G	ENG	ENG
3208	1/8 DIN unit	VL 20-29Vac/dc	R	R	X	R	2CL	S	FRA	FRA
3204	1/4 DIN unit		L	L	X	L	4CL		GER	GER
			D	R	X	R			SPA	SPA
			D	D	X	D			ITA	ITA

Function	3216	3204/08
CC	Controller	
CP	Programmer	

AA Relay	Options
X Disabled	XXX Not fitted
R Relay	XCL CT & Dig in A
	2CL RS232, CT & Dig in A
	4CL RS485, CT & Dig in A

Where
 L = Logic,
 R = Relay,
 D = 0-20 or 4-20mA,
 X = Not fitted

Quick Start Code (Optional)

Input Type	Setpoint Limits	OP1	OP2	AA Relay	CT Input	Dig in A	Dig in B	OP3	Lower Display
Input Type Thermocouple B Type B J Type J K Type K L Type L N Type N R Type R S Type S T Type T C Custom/Type C RTD P pt100 Linear M 0-80mV 2 0-20mA 4 4-20mA	Setpoint Limits Temperature C Deg C full range F Deg F full range Centigrade Fahrenheit 0 0 to 100 deg C G 32 to 212 deg F 1 0 to 200 deg C H 32 to 392 deg F 2 0 to 400 deg C J 32 to 752 deg F 3 0 to 600 deg C K 32 to 1112 deg F 4 0 to 800 deg C L 32 to 1472 deg F 5 0 to 1000 deg C M 32 to 1832 deg F 6 0 to 1200 deg C N 32 to 2192 deg F 7 0 to 1400 deg C P 32 to 2552 deg F 8 0 to 1600 deg C R 32 to 2912 deg F 9 0 to 1800 deg C T 32 to 3272 deg F	OP1, OP2, AA Relay, OP3 X Unconfigured Relay or Logic outputs Control H Heat (PID) C Cool (PID) J Heat (On/off) K Cool (On/off) Alarm output 5 High alarm 6 Low alarm 7 Deviation high 8 Deviation low 9 Deviation band DC outputs Control H 4-20mA heating C 4-20mA cooling J 0-20mA heating K 0-20mA cooling Retransmission D 4-20mA setpoint E 4-20mA Process value F 4-20mA output N 0-20mA setpoint Y 0-20mA Process value Z 0-20mA output	CT Input X Not fitted 1 10 Amps 2 25 Amps 5 50 Amps 6 100 Amps Dig in A, Dig in B, OP1 X Not configured W Alarm acknowledge M Manual select R Timer/Prog Run L Keylock P Setpoint 2 select T Timer/prog reset U Remote SP select V Recipe 2/1 select	Lower Display T Setpoint P Output demand% R Time to run E Elapsed time 1 Alarm setpoint A Load amps D Dwell/ramp - time/target N None					