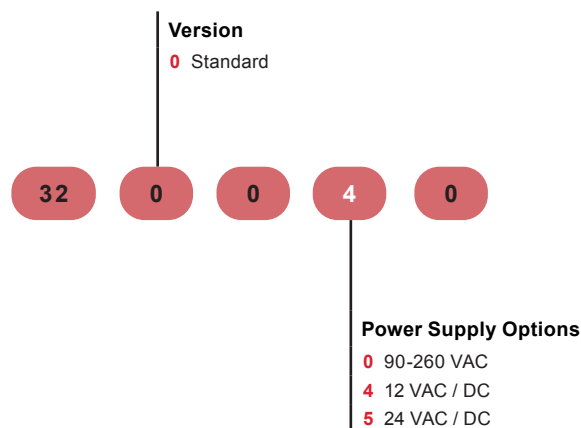# CAL 3200 Simple PID Temperature Controller

The compact CAL 3200 1/32DIN temperature controller is designed to be easy-to-use and reliable within the most demanding process and manufacturing applications.

Designed for industrial or scientific applications CAL3200 has an impact resistant smoked fascia with large rubberized buttons with positive feedback. PID tuning is simple and efficient whilst the unique dAC function minimizes overshoot.

Benefits & Features

- 1/32 DIN (24 x 48 mm) and 1/16 DIN (48 x 48 mm), 102mm depth
- High impact fascia with rubberized buttons
- Thermocouple, PT100 (2 wire) and mV sensor input 2 outputs

- Plug in terminal block
- Simple menu-driven setup
- Heat/cool control strategy
- CE, UL and cUL

Version
0 Standard

| 32 | 0 | 0 | 4 | 0 |

Power Supply Options
0 90-260 VAC
4 12 VAC / DC
5 24 VAC / DC

The CAL range provides a choice of compact, impact resistant temperature controllers. The easy-to-use devices provide essential temperature control functionality including heat/cool operation and a simple ramp/dwell program. There is an integrated auto-tune feature for optimum PID settings and a unique dAC function to minimize overshoot.

Benefits & Features

- 1/32 DIN (24 x 48 mm) and 1/16 DIN (48 x 48 mm), 107mm depth
- High impact fascia with rubberized buttons
- Thermocouple, PT100 (2 wire) and mV sensor input
- 2 outputs

- RS232 or RS485 Modbus® RTU communications
- Simple menu-driven setup
- Single ramp/soak (dwell) program
- Heat/cool control strategy
- CE, UL, cUL, CSA and FM

Outputs (Reversible)
00 SSd / 2A Relay
11 2A Relay / 1A Relay
22 SSd / SSd

Supply
0 100-240 VAC
3 12-24 VAC / DC[1]

| 33 | 00 | 00 | 4 | 3 | 0 |

Model
33 1/32 DIN (48 x 24 mm)
93 1/16 DIN (48 x 48 mm)
94 1/16 DIN (48 x 48 mm) Dual Display

Communications
0 Not Fitted
2 RS232 Fitted
4 RS485 Fitted

[1] Models 3311, 9311, 9400, 9411 and 9422 are not currently available in low voltage 12-24V option.

The CAL 9500P is ideal for applications requiring fixed value or ramping temperature profiles in a compact 1/16th DIN unit. The programmer allows up to 31 programs with up to an overall total of 126 segments.

Set up of the instrument can be carried out using the front buttons or alternatively with the CALgrafix software. The tool allows quick configuration and is easy to create recipes using the graphical 'drag and drop' feature. Users can also clone parameter settings of one unit to multiple instruments in the same network.

Benefits & Features

- 1/16 DIN (48 x 48 mm), 107mm depth
- High impact fascia with rubberized buttons
- Thermocouple, PT100 (2 wire), mA, V and mV sensor input
- 3 outputs
- RS232 or RS485 Modbus® RTU communications
- Heat/cool control strategy
- Up to 126 segments shared in up to 31 programs
- Profiler functions include event outputs, loop, call, hold back and 3 power recovery modes
- Simple menu-driven setup
- CE, UL and cUL

Outputs 1 & 2

00	SSd / Relay
11	Relay / Relay
22	SSd / SSd
B1	4-20 mA / Relay
B2	4-20 mA / SSd
C1	0-5 V / Relay
C2	0-5 V / SSd
D1	0-10 V / Relay
D2	0-10 V / SSd

Inputs

A	Sensor (Thermocouple or RTD)
B	4-20 mA
C	0-5 V
D	0-10 V

95　00　1　P　B　4　00

Output 3

1　Relay

Communications

0	Not Fitted
2	RS232 Fitted
4	RS485 Fitted