

# CAL 3300

## Temperature Controller with Single Program

1/32<sup>nd</sup> DIN (45 x 22.5mm panel mounting cut-out)



### Features

- Full PID auto-tuning
- Sleeve mounting for easy fitting
- Bright LED displays
- IP66 protection from front panel
- Dual-outputs
- CE, UL & CSA approvals
- Alarms with 5 options
- 3-year warranty
- PID heat-cool
- Configuration and monitoring software option
- One Ramp & Soak

**Standard Model (PROCON3300) £114.00**

**Low Voltage Model (PROCON330012V) £124.00**

Optional: Comms. Board Fitted +£50

Optional: Configured on any range and UKAS Calibrated at any 5 points. +£32

For addition Outputs options and prices please contact us with your requirements.

### Input: Thermocouple Mode

9 types: Type B,E,J,K,L,N,R,S,T  
Standards: IPTS/68/DIN 43710  
CJC rejection: 20:1 (0.05%°C) typical  
External resistance: 100Ω maximum

### Input: Resistance Thermometer Mode

RTD-2/Pt100: 2 wire  
Standards: DIN 43760 (100Ω 0°C/138.5Ω 100°C Pt)  
Bulb current: 0.2mA maximum

### Input: Linear Process Mode

mV range: 0 - 50mV, 0 - 20mV or 4 - 20mV

### Applicable to all inputs

Calibration accuracy: ±0.25% sensor maximum ±1°C  
Sampling frequency: input 10Hz, CJC 2 sec.  
Common mode rejection: Negligible effect up to 140dB, 240V, 50-60Hz  
Series mode rejection: 60dB, 50-60Hz  
Temperature coefficient: 150ppm/°C sensor maximum  
Reference conditions: 22°C ±2°C, rated voltage after 15 minutes settling time.



### Output Devices

Outputs: SSR Driver & Relay (2 Relay and 2 SSR models are also available, contact us for details)  
SSR Driver: Solid State Relay Driver: To switch a remote SSR 5Vdc +0/-15% 15mA non-isolated.  
Relay: form A/SPST contacts (AgCdO) 2A/250ac resistive load

### General

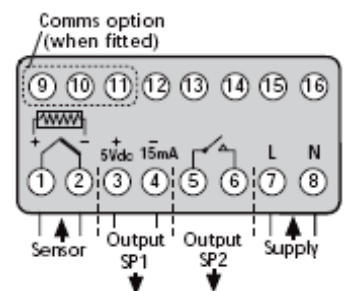
Displays: 4 digits, high brightness green LED 10mm (0.4") high.  
Digital range -199 to 9999 or Hi-res mode -199.9 to 999.9  
LED output indicators – flashing SP1 square, green; SP2 round, red.  
Keypad: 3 elastometric buttons.

### Environmental

Ambient: 0-50°C (32-130°F), 80% max humidity  
Altitude: up to 2000m  
Installation: Categories II and III  
Pollution: Degree II  
Protection: NEMA 4X, IP66  
EMC emission: EN50081-1 FCC Rules 15 subpart J Class A  
EMC immunity: EN50082-2  
Mouldings: Flame retardant polycarbonate

### Dimensions

Front facia: 51.0 x 28.5 (includes gasket)  
Sleeve length: 106.7mm (with gasket fitted)  
Instrument body: 44.8 x 22.0mm  
Overall length: 116.2mm  
Weight: 110g



### Supply Voltage Options

Standard Model: 100 - 240Vac, 50 - 60Hz, ±10%  
Low Voltage Model: 12 - 24V AC or DC, ±20%

**Communication Modules for connection to a PC**  
RS-232 or RS-485 comms and CALgrafix software are optionally available, contact us for more details.

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