

1/32nd DIN 48 x 24 mm Temperature Controller

Specification - CAL 3300



Features

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

Thermocouple Input

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

Linear Process Input

mV range: 0 - 50mV, 0 - 20mV, 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)
SSd: Solid State Relay Driver: To switch a remote SSR 5Vdc +0/-15% 15mA non-isolated.
Miniature power 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

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 and software are optionally available, contact us for more details.

3300 Standard Model £110.00

3300 Low Voltage Model £120.00

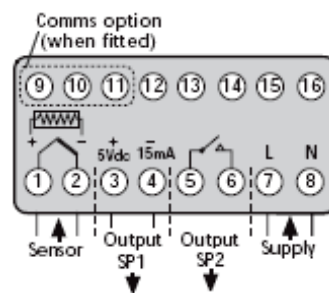
Optional: Comms. Board Fitted +£48

Optional: Configured on any range and UKAS Calibrated at any 5 points. +£30

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

Resistance Thermometer Input

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



Dimensions

Front fascia: 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

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