

1/16th DIN 48 x 48 mm

Programmable Temperature / Process Controller

Specification - CAL 9500P



Features

- Full PID auto-tuning process controller
- Alarms with 5 options
- Heat-cool operation
- Programmer operation
- Sleeve mounting for easy maintenance
- IP66 protection from front panel
- CE, UL & CSA approvals
- 3-year warranty
- Monitoring and configuration software option

Thermocouple

9 types: Type B,E,J,K,L,N,R,S,T
Standards: IEC 584-1-1 : EN60584-1
CJC rejection: 20:1 (0.05%°C) typical
External resistance: 100Ω maximum

Resistance Thermometer

RTD-2/Pt100: 2 or 3 wire
Standards: IEC751: EN60751
Bulb current: 0.2mA maximum

Output devices (Standard Version)

1 SSd Output: Solid state relay driver: To switch a remote SSR 6Vdc (nominal) 20mA non-isolated
2 Relay Outputs: Miniature power relay: Form A/SPST contacts (AgCdO): 2A/250Vac resistive load

Output devices (Analogue Output Version)

Analogue Output: 0-10Vdc 10mA (1KΩ min) ±0.1% full scale typical
1 SSd Output: Solid state relay driver: To switch a remote SSR 6Vdc (nominal) 20mA non-isolated
1 Relay Output: Miniature power relay: Form A/SPST contacts (AgCdO): 2A/250Vac resistive load

General

Displays: 4 digits, high brightness green LED 10mm (0.4") high. Digital range -199 to 9999. Hi-res mode -199.9 to 999.9.
LED output indicators - flashing SP1 square, green; SP2 & SP3 round, red.
Keypad: 3 elastometric buttons.

Programmer functions:

Segments: Total of 126 per program
Programs: Maximum of 31 programs
Program memory: 351 Bytes (see memory allocation table)

Environmental

Altitude: up to 2000m
Installation: Categories II and III
Pollution: Degree II
Protection: NEMA 4X, IP66 (Front panel only)
EMC emission: EN50081-1 FCC Rules 15 subpart J Class A
EMC immunity: EN50082-2
Ambient: 0-50°C (32-130°F), 95% non-condensing max humidity
Mouldings: flame retardant polycarbonate
Safety: EN61010-/CSA22.2 No 1010.1 92 (see users manual)
Power Requirements: 6.0VA (nominal)
Supply Voltage: 100-240Vac, 50-60Hz ±10% maximum permitted fluctuation

Communication Modules for connection to a PC

RS-232 or RS-485 and software are optionally available, contact us for more details.

95001PA Standard Version £150.00
95D21PA Analogue Output Version £170.00

Optional: Comms. Board Fitted +£48

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

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

We can also supply sensors, please contact us for details.

Applicable to all Thermocouple and RTD inputs

Calibration accuracy: ±0.25% sensor maximum ±1 °C
Sampling frequency: input 10Hz, CJC 2 sec.
Series mode rejection: 60dB, 50-60Hz
Common mode rejection: Negligible effect up to 140dB, 240V, 50-60Hz
Temperature coefficient: 50ppm/°C sensor maximum typical

Dimensions

Front facia: 51.0x51.0mm (2.0"x2.0") (includes gasket)
Sleeve length: 106.7mm (4.2") (with gasket fitted)
Instrument body: 44.8 x 44.8mm (1.76" x 1.76")
Overall length: 116.2mm (4.57")
Weight: 180g (6.4 oz)



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