

CAL 9500P

Programmable Temperature / Process Controller

1/16th DIN (45 x 45mm panel mounting cut-out)



Features

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

Input: Thermocouple (TC) Mode

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

Input: Resistance Thermometer (RTD) Mode

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

Input Measurement (TC & RTD Mode)

Calibration accuracy: ±0.25% sensor max ±1 °C
Sampling frequency: input 10Hz, CJC 2 sec.

Series mode rejection: 60dB, 50-60Hz
Common mode rejection: Negligible up to 140dB, 240V, 50-60Hz
Temperature coefficient: 50ppm/°C sensor maximum typical

Output Devices - Standard Version (95001PA000)

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 (95D21PA000)

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

Other output options are also available, the first two outputs can be SSd, Relay, 0-10V, 0-5V or 4-20mA, the third output is always Relay. For more details and prices please contact us with your requirements.

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: Maximum of 126 per program*
Programs: Maximum of 31 programs*
Program memory: 351 Bytes*

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

Dimensions

Front fascia: 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)

**Programmer memory allows for 1 program with 126 segments or 6 programs with 21 segments each or 31 programs with 4 segments each, etc.*

Communication Modules for connection to a PC

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

Standard Version (PROCON9500P)

Analogue Output Version (PROCON95D21P)

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

We can also supply sensors and provide UKAS calibration please contact us for details.



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