

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.

Standard Version (PROCON9500P)

£155.00

Analogue Output Version (PROCON95D21P)

£175.00

Optional: Comms. Board Fitted +£50

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

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

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

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.



TMS Europe Ltd,
Unit 10, Stretfield Mill, Bradwell,
Hope Valley,
S33 9JT

Tel: 01433 620535

Fax: 01433 621492

Email: sales@tmseurope.co.uk

Web: www.tmseurope.co.uk

www.tmswebshop.co.uk

Communication Modules for connection to a PC

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