

FEATURES

- PID auto tune
- On sensor failure, manual control
- 2 set point
- 2 outputs-Relay (control or alarm) and SSR (Control)
- Soft-start feature
- Heating and cooling
- CE Certified

RS PRO On/Off Temperature Controller, 77 x 35mm, J Type Thermocouple, K Type Thermocouple, R Type Thermocouple, S Type

RS Stock No.: 124-1059



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From our RS PRO range this high quality digital controller offers a thermocouple of PT100 sensor input. Featuring built in On/Off or PID control and 2 output (Relay or SSR) operation is quick, easy and user friendly. This controller is ideal for use in Industrial applications.

Options available:

[124-1058](#) - 230V ac, 1 x relay, 1 x SSR, PT100

[124-1059](#) - 230V ac, 1 x relay, 1 x SSR, Thermocouple

[124-1060](#) - 24V ac, 1 x relay, 1 x SSR, Thermocouple

General Specifications

Input Type	K Type Thermocouple
Output Type	Relay
Number of Inputs	1
Number of Outputs	1
Termination Type	Screw
Housing Type	Suitable for flush-panel mounting
Enclosure Material	Self-extinguishing plastics.
Application	HVAC systems, Ovens, Incubators, Automotive, Storage solutions

Electrical Specifications

Supply Voltage	230V ac
Power Consumption	Max. 5VA
Line Resistance	Max. 100ohm
Data Retention	EEPROM (minimum 10 years)
Wiring	Power connector: 2.5mm ² screw-terminal, Signal connector: 1,5mm ² screw-terminal connection.
Frequency	50/60Hz
Electrical Contact Life	100,000 operations at rated output
Memory Back-up	EEPROM

Mechanical Specifications

Mounting Type	Panel Mount
Panel Depth	73mm
Size	77mm x 35mm
Range	0 → +1300 (K Type Thermocouple) °C, 0 → +1700 (R Type Thermocouple) °C, 0 → +1700 (S Type Thermocouple) °C, 0 → +400 (T Type Thermocouple) °C, 0 → +600 (J Type Thermocouple) °C
weight	200g
Panel cut	71.5mm x 28.5mm

Control Specifications

Control Type	Single-set point and alarm control
Control Algorithm	On-Off / P, PI, PD, PID (selectable)
A/D Converter	12 bit
Sampling Time	100ms
Proportional Band	Adjustable between 0% and 100%.
Control Period	Adjustable between 1 and 250 seconds
Hysteresis	Adjustable between 1 and 50°C/F
Output Power	The ratio of power at a set point can be adjusted between 0% and 100%

Operation Environment Specifications

Minimum Operating Temperature	0°C
Maximum Operating Temperature	+50°C
Max. Relative humidity	80%
Storage Temperature	-25°C to 70°C
Altitude	Max. 2000m

Protection Category

IP Rating	IP20, IP65
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Approvals

Compliance/Certifications	CE, EN60529
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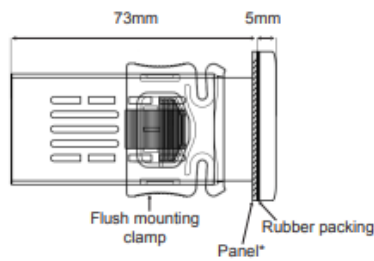
Dimensions

Front Fascia 35 x 77mm.

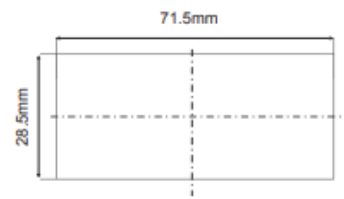
Front



Depth



Panel cut-out



*Panel thickness should be maximum 7mm.