

Every part matters

Instruction Manual

RS Pro 35 x 77mm ON/OFF/PID Temperature Controller, 2 outputs Stock Number: 124-1058, 124-1059, 124-1060

CE



Read this document carefully before using this device. The guarantee will be expired by device damages if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

- 35x77mm size.
- · Heating or cooling applications
- Thermocouple or PT100 inputs
- Two outputs for control and alarms
- ON/OFF or PID control
- On sensor failure, manual control can be selected.
- Sensor input offset setting
- Two setpoint selectable from front panel.
- Selectable thermocouple types or PT100 input. (Specify at order).
- PID Autotune
- · Soft-Start feature.
- Two outputs Relay (control or alarm) and SSR (control)
- CE marked

TECHNICAL SPECIFICATIONS

Input type		Temperature range		Accuracy	
		°C	°F		
PT100 Resistance thermome	eter EN 60751	-99.9300.0 °C	-99.9543.0 °F	± 0,5% (of full scale) ± 1 digit	
PT100 Resistance thermome	eter EN 60751	-200600 °C	-3281112 °F	\pm 0,5% (of full scale) \pm 1 digit	
J (Fe-CuNi) Thermocouple	EN 60584	0 600°C	+32 +1112°F	\pm 0,5% (of full scale) \pm 1 digit	
K (NiCr-Ni) Thermocouple	EN 60584	01300°C	+32 +2372°F	± 0,5% (of full scale) ± 1 digit	
T (Cu-CuNi) Thermocouple	EN 60584	0 400°C	+32 +752°F	± 0,5% (of full scale) ± 1 digit	
S (Pt10Rh-Pt) Thermocouple	EN 60584	01700°C	+32 +3092°F	± 0,5% (of full scale) ± 1 digit	
R (Pt13Rh-Pt) Thermocouple EN 60584		01700°C	+32 +3092°F	\pm 0,5% (of full scale) \pm 1 digit	
ENVIRONMENTAL CONDI					
Ambient/storage temperature					
Max. Relative humidity	Relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40				
Rated pollution degree	According to EN 60529 Front panel : IP65 Rear panel : IP20				
Height	Max. 2000m				
Do not use the device	in locations sub	ject to corrosive an	d flammable gases.		
ELECTRICAL CHARACTE	RISTICS				
Supply	230V AC +%10 -%20, 50/60Hz or 24V AC ±%10, 50/60Hz				
Power consumption	Max. 5VA				
Wiring	Power connector: 2.5mm ² screw-terminal, Signal connector: 1,5mm ² screw-terminal conenction.				
	Max. 100ohm				
	EEPROM (minimum 10 years)				
	EN 61326-1: 2013				
	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)				
OUTPUTS					
	Relay : 250V AC,	8A (for resistive lo	oad), Selectable as NC	0+NC Control or Alarm2 output.	
SSR output	Max 20mA 12Volt (as control output)				
Life expectancy for relay	Mechanical 30.000.000; Electrical 100.000 operation. 250V AC, 8A				
CONTROL					
	Single set-point and alarm control				
	On-Off / P, PI, PD, PID (selectable)				
.	12 bit				
	100ms				
	Adjustable between 0% and 100%. If Pb=0%, On-Off control is selected.				
	Adjustable between 1 and 250 seconds				
	Adjustable between 1 and 50°C/F				
			be adjusted between	0% and 100%	
HOUSING					
Housing type	Suitable for flush-panel mounting according to DIN 43 700.				
	H35xW77xD71mm				
	Approx. 200g (after packing)				
0	Self extinguishing plastics.				
A		•.	cid etc.) or corrosive n	naterials must not be used.	

FOR MORE INFORMATION VISIT THIS SITE

http://www.rs-components.com/index.html

EN

1 x relay, 1 x SSR

1 x relay, 1 x SSR

1 x relay, 1 x SSR

R⊚HS Compliant

C/A2

230V ac

230V ac

24V ac

PRO

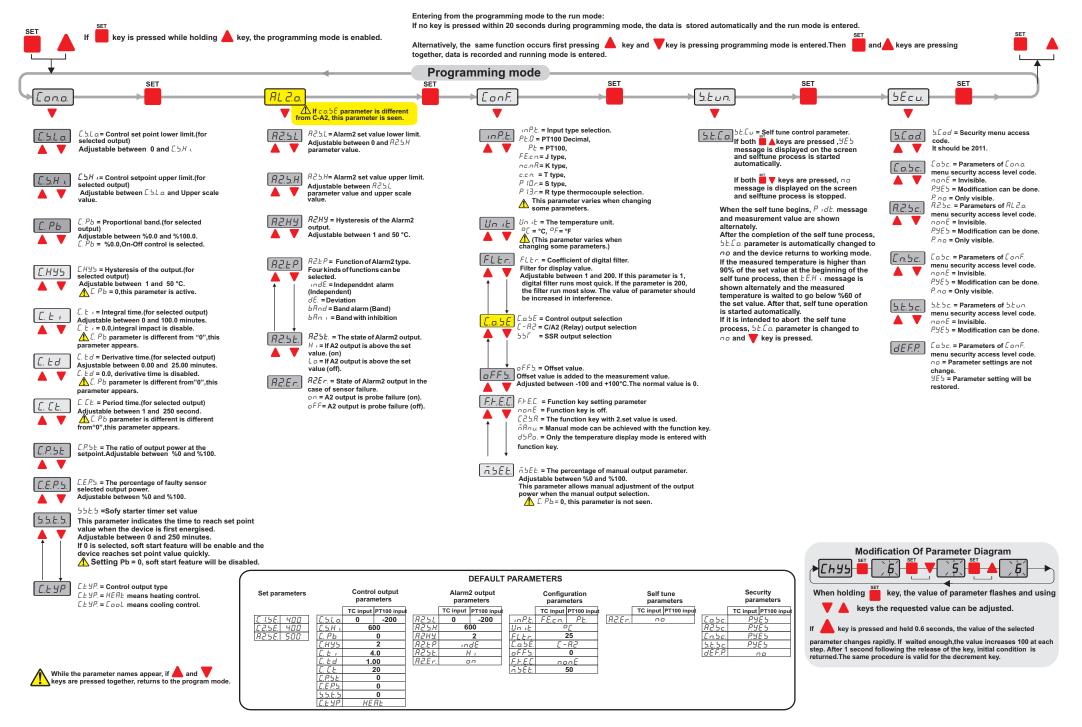
124-1058

124-1059

124-1060

SSR

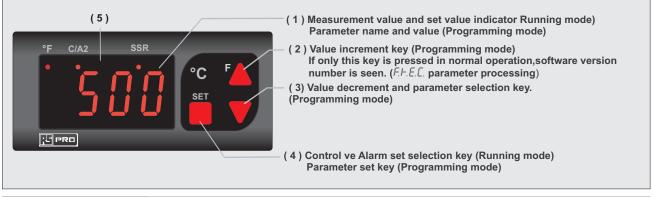
Part Code Supply Voltage Number Outputs



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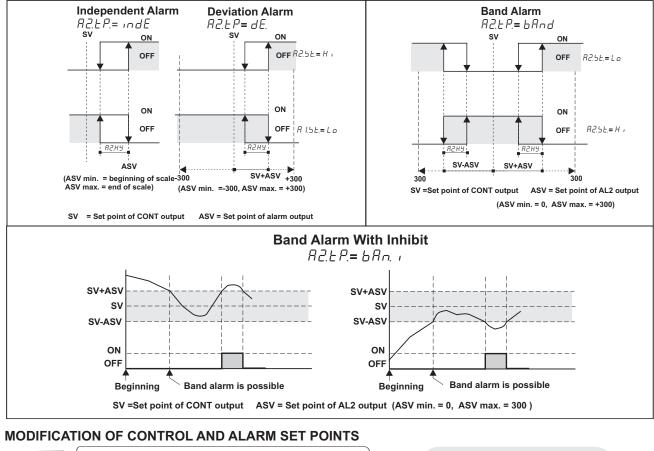
http://www.rs-components.com/index.html

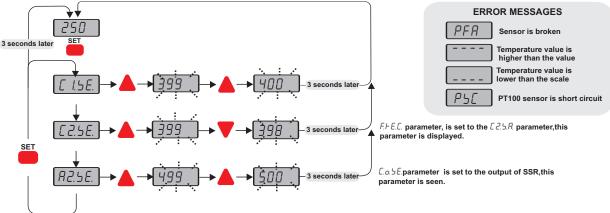
TERMS



(1) PV and SV display	7 segment, 4 digits red LED display		
Character heights	12 mm		
(2),(3),(4) Keypad	Micro switch		
(5) State indicator	For control, Alarm1 and SSR outputs 3 digits red LED		

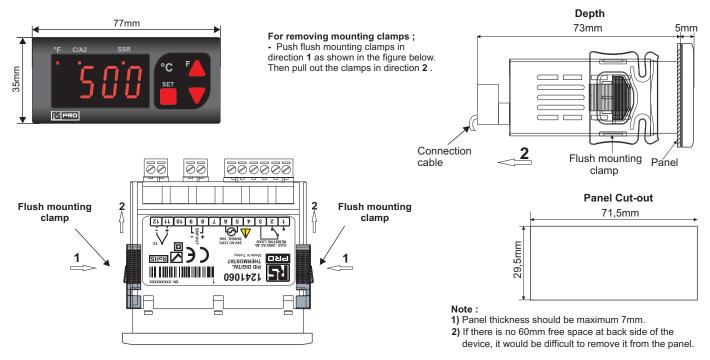
ALARM2 OUTPUT TYPES





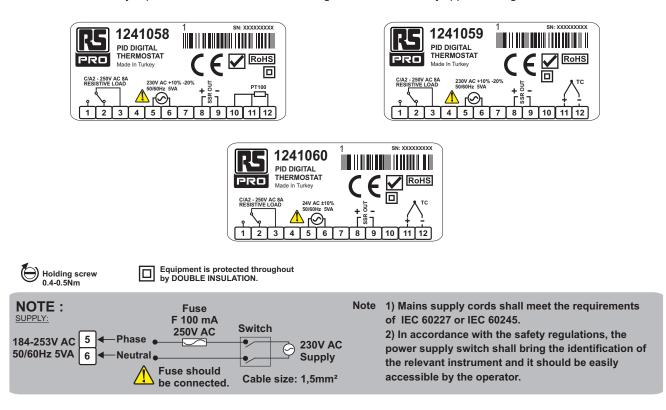
FOR MORE INFORMATION VISIT THIS SITE

DIMENSIONS



CONNECTION DIAGRAM

1241058, 1241059 and 1241060 is intended for installation within control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling. Make sure that the operation temperature is not exceeded. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations.



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