

Instruction Manual
RS Pro Temperature Controller
Stock Number: 124-1057



Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation or use of this product.

- * 54 x 94mm DIN rail format .
- * On-Off control.
- * Control output for cooling or heating
- * Single NTC input.
- * Offset value can be entered for NTC probe.
- * Probe failure setting, output status can be set to ON, OFF or pulse.
- * Sensor input offset setting.
- * High and low setpoint limits
- * Temperature units °C or °F.
- * CE marked



Part Code	Supply Voltage	Number Outputs
124-1057	230V ac	1

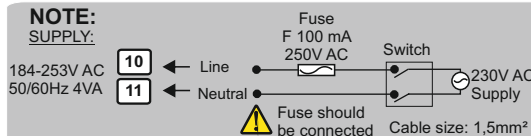
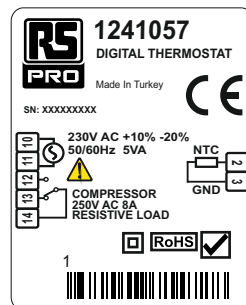


1241057 is a rail mounted device. Make sure that the device is used only for intended purpose. The electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling and make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.

CONNECTION DIAGRAM

Equipment is protected throughout by **DOUBLE INSULATION**

Holding screw
0.4-0.5Nm.



Note:
 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.
 2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

ENVIRONMENTAL CONDITIONS	
Ambient/storage temperature	0 ... +50°C/-25 ... 70°C (without icing)
Relative humidity	Max. humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
Protection class	According to En60529; Front panel : IP65 Rear panel : IP20
Height	Max. 2000m

Do not use the device in locations subject to corrosive and flammable gasses.

ELECTRICAL CHARACTERISTICS	
Supply voltage	230V AC +%10 -%20, 50/60Hz
Power consumption	Max. 5VA
Connection	2.5mm ² screw-terminal connections
Scale	-60.0 ... +150.0°C (-76.0 ... +302.0°F)
Sensitivity	0.1°C (Can be selected as 0.1°C or 1°C.)
Accuracy	±1°C
Time accuracy	±%1
Display	4 digits, 12.5mm, 7 segment LED
EMC	EN 61326-1: 2013
Safety requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)

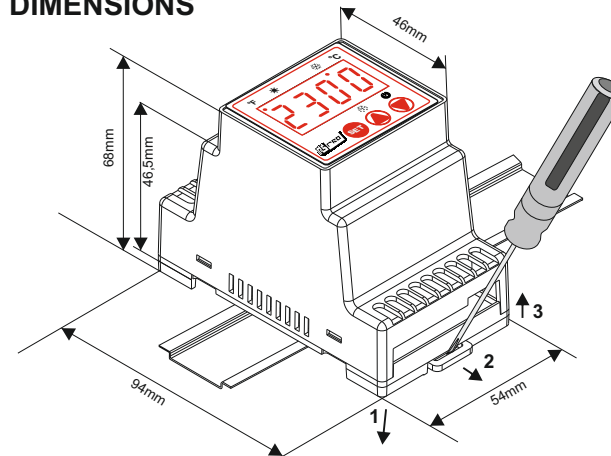
OUTPUTS	
Relay output	For 1241057-X-X ; Relay: NO+NC 250V AC, 8A (for resistive load), 1/2hp 240V AC (for inductive load)
Life expectancy for relay	For 1241057-X-X ; Without load 30.000.000 mechanical; 250V AC, 8A resistive load 100.000 electrical operation.

CONTROL	
Control type	Single set-point control
Control algorithm	On-Off control
Hysteresis	Adjustable between 1 ... 20.0°C.

HOUSING	
Housing type	Mounted to TH35 type rail that is in accordance with EN60715 standards
Dimensions	W54xH94xD68mm
Weight	Approx. 190g (After packing)
Enclosure material	Self extinguishing plastics.

While cleaning the device, solvents (thinner, gasoline, acid etc.) or corrosive materials must not be used.

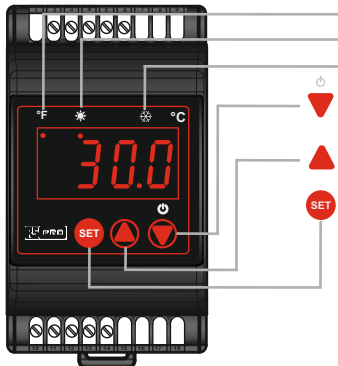
DIMENSIONS



For mounting the device to the panel;
Push the device in direction 1, the rails provide the key to keeping the rail.

For removing the device from rail;
Push the rail lock in direction 2 with a screwdriver and pull the device in direction 3.

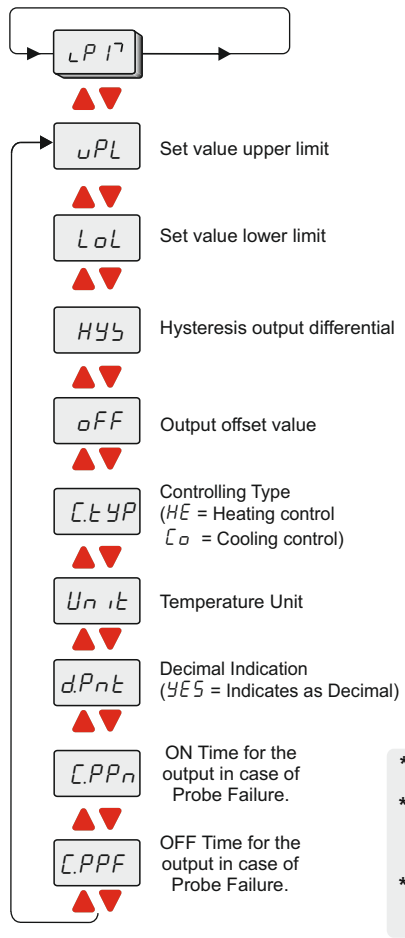
FOR MORE INFORMATION VISIT THIS SITE
<http://www.rs-components.com/index.html>



- °F **FAHRENHEIT LED** : In parameter value or the measured temperature value "°F" unit while this LED lights up.
- ☀ **HEATING LED** : Heating is being checked; while the output is active, the LED lights.
- ❄ **COOLING LED** : If compressor output is active, this LED lights up.
- ▼ While in programming mode, provides the transition to the previous parameter. If parameter is being adjusted, it decreases parameter's value. Constantly holding this key, the parameter value rapidly decreases.
- ▲ While in programming mode, provides the transition to the next parameter. If parameter is being adjusted, it increases parameter's value. Constantly holding this key, the parameter value rapidly increases.
- SET While in the operating mode set value, while in the programming mode shows selected parameter's value.

If ▲ ▼ keys are held down for 3 seconds, Programming Mode is entered.
 If ▲ ▼ keys are pressed, Running Mode is entered.

Programming Mode

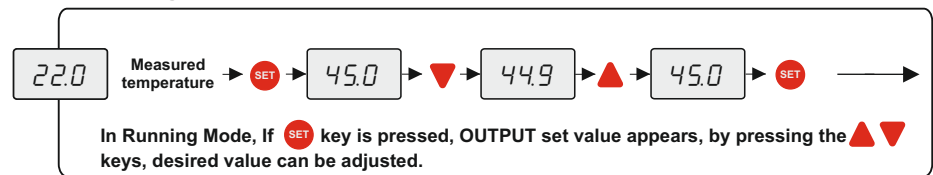


* Available for RS featured devices.

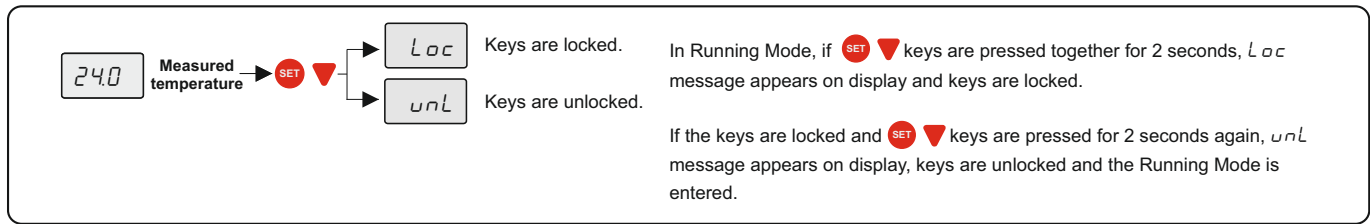
* **AdrS** Device address

* **bAUd** Baudrate

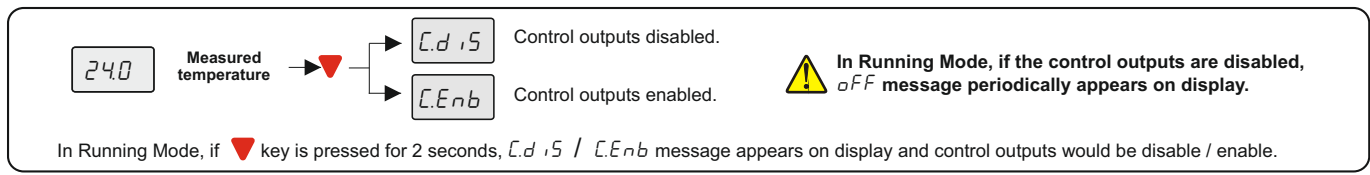
Running Mode



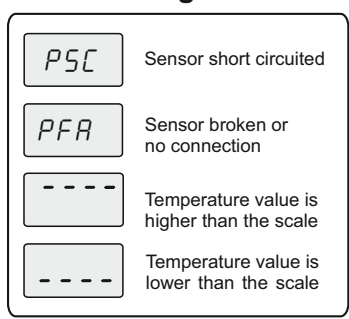
Locking - Unlocking Keys



Activating / Inactivating Control Outputs



Error Messages



PARAMETER TABLE

Menu Parameters		Min.	Max.	Unit	Start Value
LPI	Upper limit for set value	LoL	150.0	°C	150
LoL	Lower limit for set value	-60.0	uPL	°C	-60
HYS	Hysteresis output differential	0.1	200	°C	2
oFF	Output offset value	-200	200	°C	0
C.tYP	Control type (HEAt = Heating control, CooL = Cooling control).	HEAt	CooL		HEAt
Un it	Temperature Unit	°C	°F		°C
d.Pnt	Decimal point indication (YES = Indicates as Decimal. 22.3°C) (no = Indicates as Integer numeric (Non-Decimal) 22°C)	no	YES		no
C.PPn	ON Time for the output in case of Probe Failure.	0:00	99:00	min:sec	0:00
C.PPF	OFF Time for the output in case of Probe Failure.	0:00	99:00	min:sec	1:00
*AdrS	Device address	247			1
*bAUd	Baudrate	oFF	19200		9600