

Every part matters



Instruction Manual

RS Pro 35 x 77mm Defrost Thermostat, NTC, Two Outputs Stock Number: 124-1047, 124-1048



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.

- 35 x 77mm.
- On-Off control.
- · Control output for cooling or heating.
- · Addtional Output for defrost or lighting.
- Range -60 to 150°C.
- · Single NTC probe input.
- Compressor protection parameter.
- · Probe failure setting, output status can be set to ON, OFF or pulse.
- · Adjustable upper and lower setpoint value limits
- · Sensor input offset setting.
- · Adjustable defrost duration and intervals.
- · 6 selectable warning tones.
- · High and low alarm limits, absolute or deviation.
- Temperature units °C or °F.
- Digital input;
 - External alarm.
- Initiate defrost or lighting.
- · CE marked.



Part Code	Supply Voltage	Number Outputs
124-1047	230V ac	2x Relay
124-1048	24V ac/dc	2x Relay

R_®HS Compliant



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CONNECTION DIAGRAM



1241047 & 1241048 is intended for installation in control panels. 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.

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.

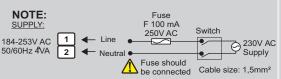






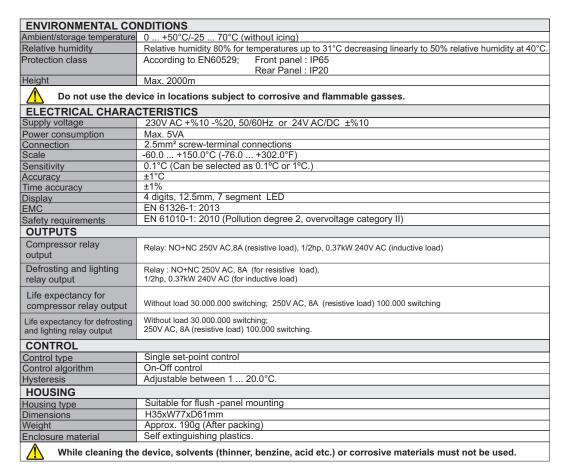


Holding screw 0.4-0.5Nm.

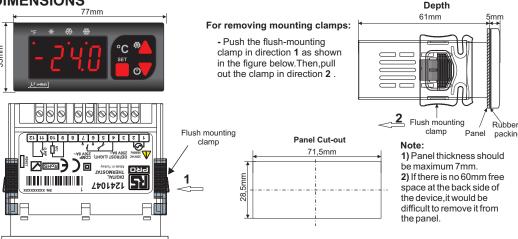


Note:

- 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.

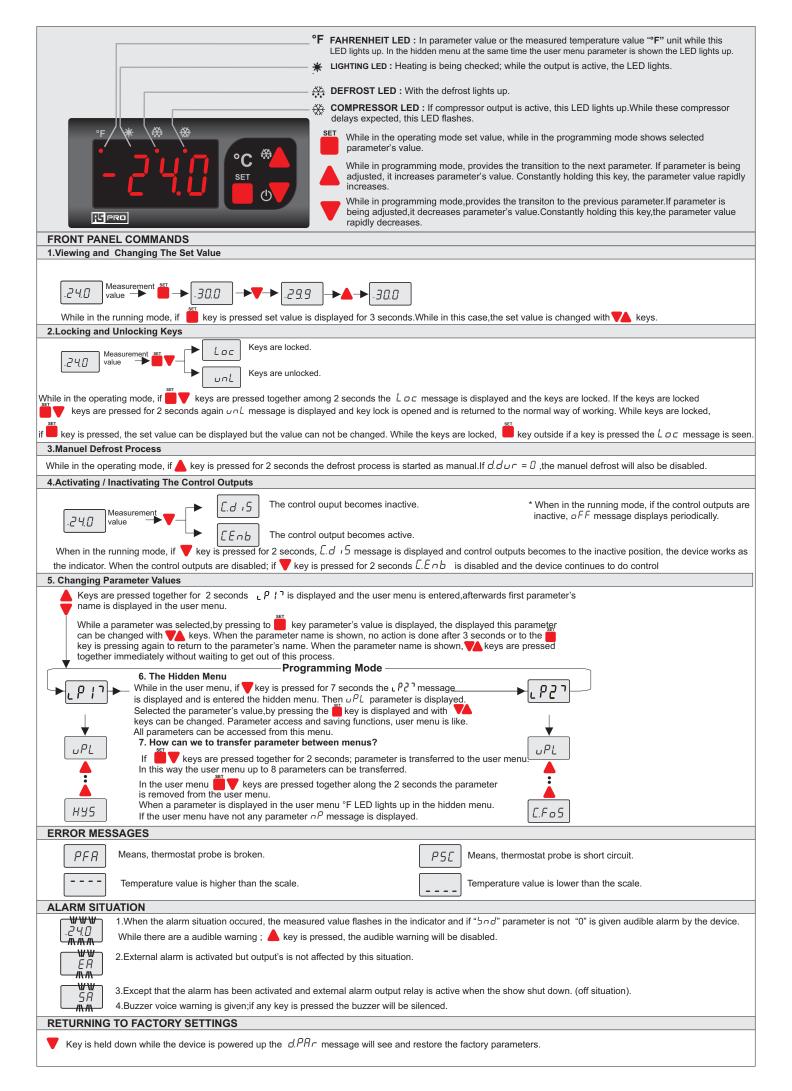






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CONTR	OL PARAMETERS	MIN.	MAX.	UNIT	DEF. SET
υPL	The upper limit of the setpoint	-60.0	υPL	°C	150
LoL	The lower limit of the setpoint	LoL	150.0	°C	-60
HY5	Switch hysteresis for compressor (hysteresis)	D. 1	20.0	°C	2
oFF	The offset value for the refrigeration	-20.0	20.0	°C	0
CONFIG	GURATION PARAMETERS				
o.E YP	Defrost / Lighting relay, output type selection. (dEF : Relay is used as defrost relay, $LEhE$: Relay is used as lighting relay.	[o	HE		٤o
		dEF	LGhE		dEF
Un it	Temperature unit (Devices with part code suffix 'F' have deg F as the default 'Unit').	°C	°F		°C
dPnE	Decimal point (na= decimal point isn't shown 22°C, 4£5=decimal point is shown 22.3°C.)	no	<i>YE</i> 5		no
5nd	Type of buzzer sound (6 different voice types can be selected. Alarm during \bar{U} is chosen, the voice warning is canceled.) For Relay-8A is valid.		6		0
d. in P	Digital input types. nd :Digital input unused. ER : External alarm. ER message flashes in the display. Output unchanged. SR : Important external alarm. SR message flashes in the display. Relay output is turned off. HE :	nd	dF		nd
, ,	Control type. $EEYP$ parameter is changed.(If $HE = E_0$, If $E_0 = HE$) dF : Defrost operation is started				0.00
dd i	Digital input delay. The period of the digital inputs to be active.	0:00	99:00		0:00
dPo	Digital input polarity. c L = While a digital input contact is closed, it is activated.	ΕL	οP		ΕL
	σP= While a digital input is opened, it is activated.				
COMPR	ESSOR PROTECTION PARAMETERS				
C.Pon	Delay time for the compressor after power is on.	0:00	99:00	min:sec	1:00
.Fo5	Delay time required for the compressor to restart following a stop.	0:00	99:00	min:sec	1:00
.PPn	On time for the compressor output in the case of probe failure.	0:00	99:00	min:sec	0:00
	Off time for the compressor output in the case of probe failure	0:00	99:00	min:sec	1:00
	·	0.00	33.00	111111.300	7.00
DEFRU	ST CONTROL PARAMETERS			I	
d.SñE	Smart Defrost selection (na: Defrost counter (between 2 defrost duration) decrease irrespective of dunk status of the compressor. 9£5: Defrost counter decreases as long as compressor work).	no	<i>YE</i> 5		no
3.E Y P	Defros type selection (ELC : electric defrost (compressor is switched off), பிச் : hot gas (compressor முற்ற)		GA5	ELC	
d.dur	Defrost duration (If $d.dur = 0$, automatic and manual defrost are disabled.)	0:00	99:00	min:sec	1:00
d. in E	The time between 2 consecutive defrosts.	1:00	99:00	hr:min	1:00
d.d5P	During defrost,display configuration (r E = Real temperature is displayed during defrost. (L c = The temperature which is measured before defrost is displayed during defrost.	Lc.	rЕ		L c.
d.drE	Delay time for display real temperature after defrost is over.	0:00	99:00	min:sec	1:00
d.Pon	Defrosting process begins with energy (na=Defrost process doesn't start when,the energy comes. 9£5=Defrost process starts when the energy comes.)	no	<i>9E</i> 5		no
d.dPo	Delay time for defrosting after power is on.	0:00	99:00	min:sec	1:00
d.drE	Dripping (discharge) time	0:00	99:00	min:sec	2:00
AL ADM	CONTROL PARAMETERS				
	CONTROL PARAMETERS	0.1.1	1000	0.0	ıco
9.UPL	Limit for upper alarm level. When REYP is changed, RuPL should be readjusted.	R.L.o.L	150.0	°C	150
9.LoL	Limit for lower alarm level. When REYP is changed, RLoL should be readjusted.	-60.0	R.∪PL 20.0	°C	-60
R.HY5	Hysteresis alarm	D. 1	C U.U	°C	2
9.E Y P	Alarm configuration. ($Rb5$ = Independent alarm. Alarm values are $RLoL$ and $RuPL$.) (rEF = Relative alarm. Alarm values are $SEE-RLoL$ and $SEE+RuPL$.) NOTE: Upper and Lower alarm level variables are determined according to the " $RESP$ " parameter. If $RESP = RbS$, $RLoL$ and $RuPL$. If $RESP = rEF$, $LoL = SEE-RLoL$ and $RuPL$.	R 6 5	rEF		ЯЬЅ
R.dFL	Time delay to display alarm message after alarm is on.	0.00	99:00	minions	0:00
	Time delay to display alarm message after power is on.	0:00		min:sec	
9.dPo		0:00	99:00	hr:min	0:10
	IS COMMUNICATION PARAMETERS				
7dr5	Modbus slave device address for device	1	247		1
bRud	Modbus communication speed (Baud rate, 0 : aFF, 1 : I200, 2 : 2400, 3 : 4800, 4 : 9600, 5 : I920)	oFF	19.20	bps	9600