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Elecro Heater Replacement Thermostat Instruction Manual



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.



Part Code	Supply Voltage Number Out			
124-1045	230V ac	1x Relay		

CONNECTION DIAGRAM



1241045 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. 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.



Temp Sensor connects to terminals 9-10 Flow switch connects to terminals 11-12

Equipment is protected throughout by DOUBLE INSULATION.

0.4-0.5Nm

NOTE: Fuse F 100 mA 250V AC 184-253V AC 1 ← Line Fuse F 100 had 250V AC 1 ← Line Fuse should be connected	Switch 230V AC Supply Cable size: 1,5mm²	1
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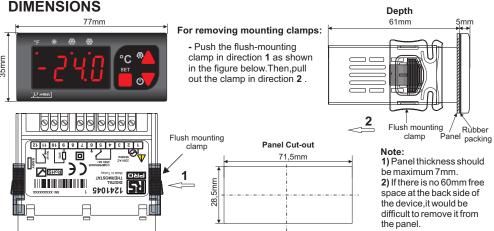
Note: 1) Mains supply cords shall meet the requirements of

IEC 60227 or IEC 60245.

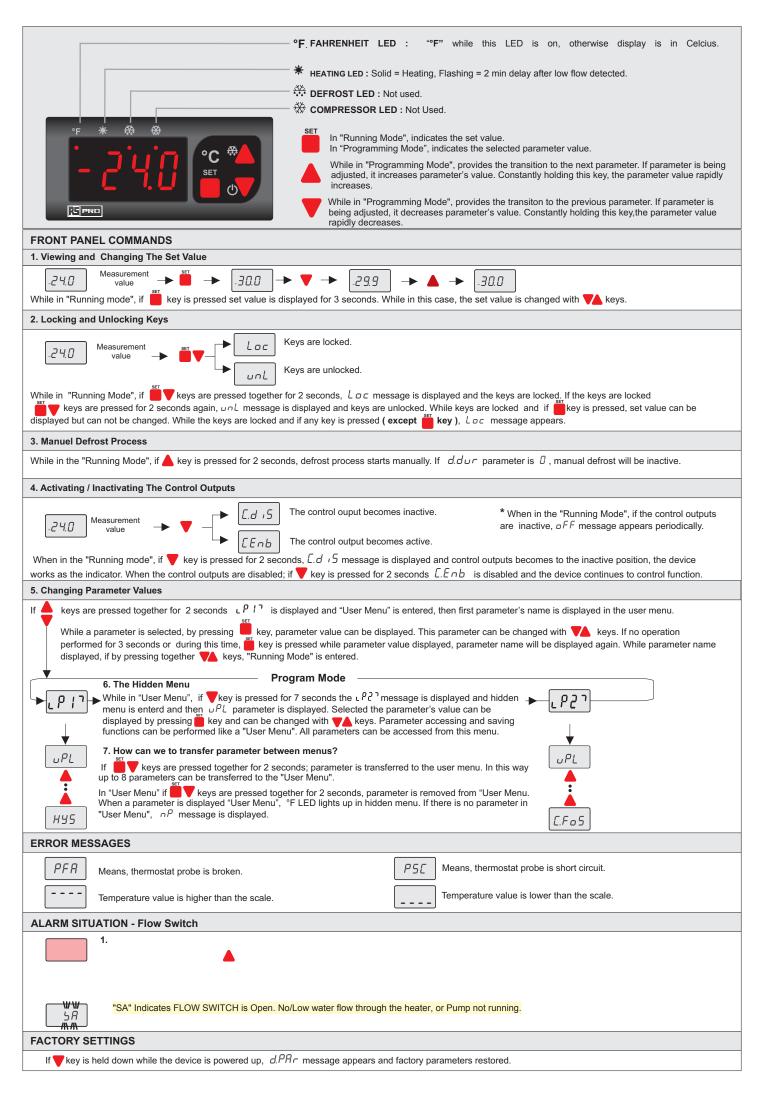
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

ENVIRONMENTAL CONDITIO	NS .		
Ambient / Storage Temperature	0 +50°C/-40 85°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 I	ocations subject to corrosive and flammable gasses.		
ELECTRICAL CHARACTERIS	STICS		
Supply Voltage	230V AC +%10 -%20, 50/60Hz		
Power Consumption	Max. 5VA		
Connection	2.5mm² 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	Relay: NO+NC 250V AC,8A (resistive load), 1/2HP, 0.37KW 240V AC (inductive load)		
Life Expectancy for Relay	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	Suitable for flush -panel mounting		
Dimensions	H35xW77xD61mm		
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.



CONTROL	PARAMETERS	Min.	Max.	UNIT	DEFAULT VALUE
υPL	Upper limit for setpoint	- 60.0	υPL °C		40.0
LoL	Lower limit for setpoint	LoL		°C	10.0
HY5	Differential cooling (hysteresis)	D. 1	20.0	°C	1.0
oFF	Offset value for cooling	-20.0	20.0	°C	0
CONFIGU	RATION PARAMETERS				
C.E.YP	Control type selection ($HE = (*)$ heating control is selected, $\mathcal{L}a = \text{Cooling control}$ is selected.)	Co.	HE		
L.C JF	$\mathcal{L}.\mathcal{L}.\mathcal{P}$ parameter as $\mathcal{H}\mathcal{E}$ is selected, the defrost function of the device is disabled.				HE
UniE	Temperature unit	٥٢	oF		°C
dPnE	Decimal point (no= decimal point isn't shown 22°C, 45 5 decimal point is shown 21.3°C.)	no	<i>YE</i> 5		YES
	Type of buzzer sound (6 different voice types can be selected. Alarm during $\mathcal D$ is chosen, the voice warning is		262		ILO
Snd	canceled.) For Relay-8A is valid.	60	0		l
d. inP	Digital input types. nd:Digital input unused. ER: External alarm. ER message flashes in the display. Output	nd	LGhE		SA
	unchanged. 58: Important external alarm. 58 message flashes in the display. Relay output is turned off. HE:	0.00			
99 '	Control type. $LEYP$ parameter is changed.(If $HE = Lo$, If $Lo = HE$) dF : Defrost operation is started.	0:00	99:00		0:00
dPo	Digital input delay. The period of the digital inputs to be active.	٠,			
	Digital input polarity. cL = While a digital input contact is closed, it is activated.	[[L	oΡ		oP
	$_{\mathcal{O}}\mathcal{P}$ = While a digital input is opened, it is activated.				
COMPRES	SOR PROTECTION PARAMETERS				
C.Pon	Delay time for the compressor after power is on.	0:00	99.00	min:sec	0.00
C.F o 5	Delay time required for the compressor to restart following a stop.	0:00		min:sec	
C.PPn	On time for the compressor output in the case of probe failure.	0:00		min:sec	
	Off time for the compressor output in the case of probe failure	_			
C.PPF		0:00	33:00	min:sec	1:00
DEFRUST	CONTROL PARAMETERS				
d.SñŁ	Smart Defrost selection (na : Defrost counter (between 2 defrost duration) decrease irrespective of d. int	no	<i>4</i> E5		no
	status of the compressor. 4£5: Defrost counter decreases as long as compressor work).	70			
d.dur	Defrost duration (If $d.dur = 0$ selected, automatic and manual defrost is disabled).	0:00	99:00	min:sec	1:00
d. int	Time between 2 consecutive defrosts.	0:00	99:00	hr:min	1:00
	Display configuration in defrosting process (¬ E : Real temperature is displayed during defrost.				
d.d5P	($L \subset :$ During a defrosting process, last measured temperature value	Lc.	ſΕ		Lс.
1,000	is displayed before the defrosting process. This value remains constant until the end of defrosting.				
d.drE	Delay time for display real temperature after defrost is over.	0:00	99:00	min:sec	1:00
U.U1 L		0.00	טט:ככ	111111.560	1:00
d.Pon	Defrost process with power. (no = Defrost process is not started when power-up.	no	YE 5		no
	YE5 = Defrost process starts when power-up).				
d.dPo	Delay time for defrosting after power-up.	0:00	99:00	min:sec	1:00
ALARM C	ONTROL PARAMETERS				
R.uPL	Limit for upper alarm level. When $ALYP$ is changed, $AuPL$ should be readjusted.	R.L.o.L	150.0	°C	150
R.L.o.L	Limit for lower alarm level. When $RLYP$ is changed, $RLyL$ should be readjusted.	-60.0	R.uPL	°C	-60
R,HYS	Hysteresis alarm	D. 1	20.0	°C	2
	Alarm configuration. (RbS = Independent alarm. Alarm values are $RLoL$ and $RoPL$.) (rEF = Relative alarm. Alarm values are $SEL-RLoL$ and $SEL+RoPL$.)				
A.L YP	NOTE: Upper and Lower alarm level variables are determined according to the " $REYP$ " parameter. If $REYP = RbS$, $RLoL$ and $RuPL$.	R65	rEF		<i>R</i> 65
	If $REYP = rEF$, $LoL = SEE - RLoL$ and $RuPL$.				l
R.dFL	Time delay to display alarm message after alarm is on.	0:00	99:00	min:sec	0:00
R.dPo	Time delay to display alarm message after power is on.	0:00	99:00	hr:min	0:10
	COMMUNICATION PARAMETERS	0.00	00.00	***************************************	0.10
		,	ריור		,
Adr S	Modbus slave device address for device	1	247		1
6Rud	Modbus communication speed (Baud rate, 0: aFF, 1: 1200, 2: 2400, 3: 4800, 4: 9600, 5: 19200)	oFF	19.20	bps	9600