

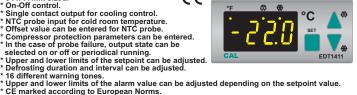
Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. CAL Controls shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation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

CE

## CAL EDT1411 THERMOSTAT

Thank you for choosing the CAL EDT1411 thermostat.

- \* 34 x 77mm sized. \* On-Off control.



- \* CE marked according to European Norms.

## Order Code : EDT1411-NTC-\_\_\_\_\_

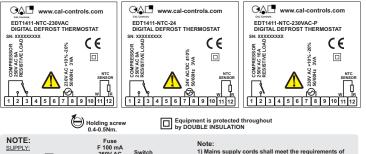
1 - Supply Voltage 230VAC...230V AC 24.....24V AC/DC 12.....12V AC/DC

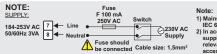
2 - Output ....Relay-16A Р None...Relay-8A

## **Connection Diagram**



CAL EDT1411 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 qualified staff only on interlete purpose. The elecuical connections must be carried out by 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 solling and make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.

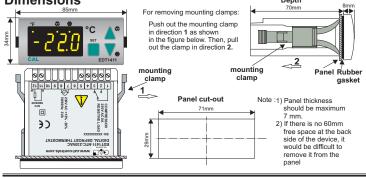




No	te:
1) 1	lains supply cords shall meet the requirements of
	EC 60227 or IEC 60245.
2) 1	n accordance with the safety regulations, the power
	upply switch shall bring the identification of the
	elevant instrument and it should be easily
	ccessible by the operator.

**Technical Specifications** 

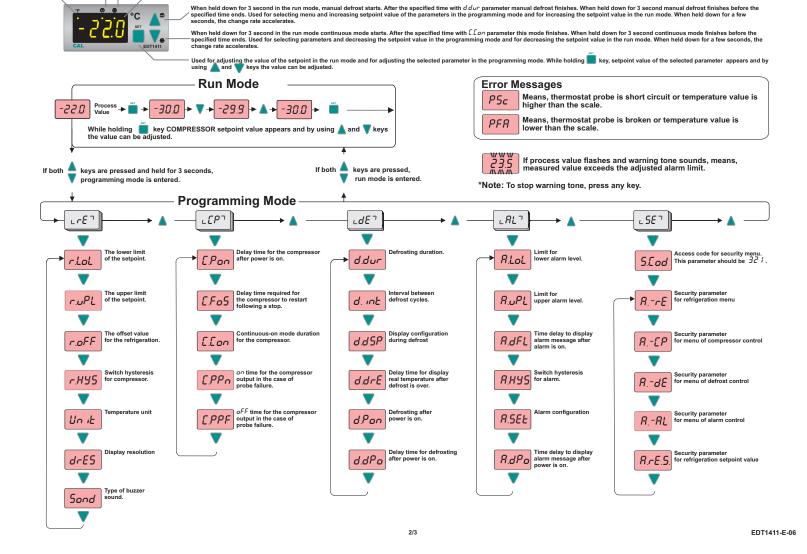
ENVIRONMENTAL COM	IDITIONS	
Ambient/storage temperat	ure 0 +50°C/-25 70°C (with no icing)	
Max. relative humidity	80%, up to 31°C decreasing linearly 50% at 40°C	_
Rated pollution degree	According to EN 60529 Front panel : IP60 Rear panel : IP20	
Height	Max. 2000m	
	ice in locations subject to corrosive and flammable gasses.	_
ELECTRICAL CHARAC		
Supply voltage	230V AC +%10 -%20, 50/60Hz or 24V AC/DC ±%10, 50/60Hz or 12V AC/DC ±%10, 50/60Hz.	
Power consumption	Max. 3VA	
Wiring	2.5mm <sup>2</sup> screw-terminal connections.	
Scale	-50.0 +110.0°C (-58.0 +230.0°F)	
Sensitivity/Accuracy	0.1°C / ±1°C	
Time Accuracy	(±%1-15sec) for hour unit, (±%1-1sec) for minute unit	
Indicator	4 digits, 12mm, 7 parts yellow LED	
EMC	EN 61326-1: 1997, A1: 1998, A2: 2001 (Performance criterion B is satisfied for EMC tests. The device is designed to operate in controlled electromagnetic environment)	
Safety requirements	EN 61010-1: 2001 (Pollution degree 2, overvoltage category II)	
OUTPUT COMPRESSOR	For EDT1411-NTC-XX ; Relay: 250V AC, 8A (for resistive load), NO+NC; 1/2 HP 240V AC Cos⊕ = 0.4 (for inductive load) For EDT1411-NTC-XPP, Relay: 240V AC, 16A (for resistive load), NO; 1 HP 230V AC Cos⊕ = 0.5 (for inductive load)	
Life expectancy for relay	For EDT1411-NTC-XX ; Mechanical 30.000.000; Electrical 10.0000peration. For EDT1411-NTC-XXP; Mechanical 30.000.000; Electrical 30.0000peration.	
CONTROL		_
Control type	Single-setpoint control	
Control algorithm	On-Off control	_
Hysteresis	Adjustable between 0.1 20.0°C.	
HOUSING		
Housing type	Suitable for panel mounting.	
Dimensions	W77xH34xD70mm	_
Weight	Approx. 250g (after packing the device and a probe)	_
Enclosure material	Self extinguishing plastics	
While cleaning the	device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.	
Dimensions	Depth	8mi
05	1 70mm 8	oill



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EDT1411-E-06

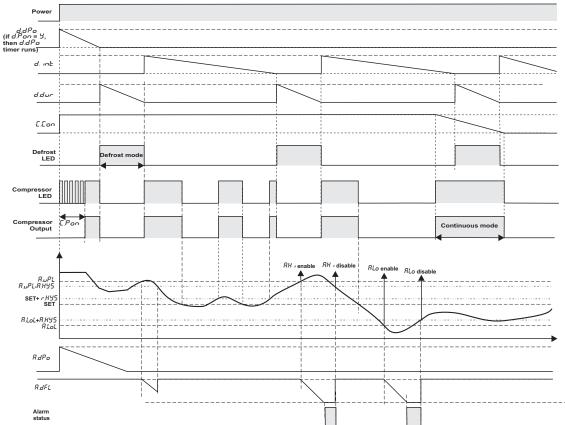


Displayed process value in the run mode, parameter name or value in programming mode.

FAHRENHEIT DEFROST COMPRESSOR

Downloaded from Elcodis.com electronic components distributor





NOTE : Variables for lower and upper alarm level are determined according to RSEL parameter. If RSEL = RRbS, then  $RLoL = RLoL & R_{u}PL = R_{u}PL$ . If RSEL = ArEF, then  $RLoL = SET-RLoL & R_{u}PL = SET+R_{u}PL$ .

LrE7	Menu of Refrigeration control parameters	MİN	МАХ	UNIT	DEF.SET				
r.LoL	The lower limit of the setpoint.	-50.0	r.uPL	°C	-50.0				
r.uPL	The upper limit of the setpoint.	r.LoL	110.0	°C	110.0				
r.oFF	The offset value for the refrigeration.	-20.0	20.0	°C	0.0				
r.HYS	Switch hysteresis for compressor.	0.1	20.0	°C	0.1				
Un it	Temperature unit	°C	°F		°C				
drES	Display resolution ( $n$ = no decimal point, $\mathcal{Y}$ = with decimal point.)	n	У		n				
Sond	Type of buzzer sound ( 16 different warning tones can be selectable. If 5o∩d=0, then warning tone is disable.)	0	16		0				
L[P <sup>つ</sup> Menu of Compressor control parameters									
[Pon	Delay time for the compressor after power is on.	0	255	min.	1				
[FoS	Delay time required for the compressor to restart following a stop.	0	255	min.	1				
E.Con	Continuous-on mode duration for the compressor.	0.0	24.0	h.	0.1				
<u>[</u> , <i>PP</i> n	on time for the compressor output in the case of probe failure.	0	255	min.	0				
<u>[</u> ,PPF	oFF time for the compressor output in the case of probe failure.	0	255	min.	1				
נטצי	Menu of Defrost control parameters								
d.dur	Defrosting duration.(If $d.dur=0$ , then defrost is disable.)	0	255	min.	1				
d. int	Interval between defrost cycles.	1	120	h.	1				
d.dSP	Display configuration during defrost ( $rERL$ = Real temperature is displayed during defrost. dEF = dEF message is displayed during defrost.)	rEAL	dEF		dEF				
d.drE	Delay time for display real temperature after defrost is over.	0	255	min.	1				
d.Pon	Defrosting after power is on.(ິ∃=Defrosting begins when power is on, ∩=Defrosting doesn't begin when power is on.)	n	У		~				
d.dPo	Delay time for defrosting after power is on.	0	30	min.	1				
LALT	Menu of Alarm control parameters								
R.LoL	Limit for lower alarm level.	-50.0	R.JPL	°C	-50.0				
R.uPL	Limit for upper alarm level.	R.LoL	110.0	°C	110.0				
R.dFL	Time delay to display alarm message after alarm is on.	0	255	min.	0				
R,HYS	Switch hysteresis for alarm.	0	15	°C	2				
R.SEŁ	Alarm configuration ( $RBb$ = Absolute alarm. Alarm values are $RLoL$ and $R\omega PL$ . $R_{r}EF$ = Relative alarm. Alarm values are $SEL-RLoL$ and $SEL+R\omega PL$ .)	<i>А</i> , <i>ЯЪ</i> 5	R,rEF		<i>Я.</i> ЯЬ5				
R.dPo	Time delay to display alarm message after power is on.	0	23.5	hr.	0.3				
LSET	Menu of Parameter security								
RrE	Security parameter for refrigeration menu ( $nonE$ = menu is invisible, $P.YES$ = Parameters of menu are changeable, $P.no$ = Parameters of menu are only visible.)								
R[P	Security parameter for menu of compressor control (חסח = menu is invisible, P. ΥΕ5= Parameters of menu are changeable, P. חסם = Parameters of menu are only visible.)								
RdE	Security parameter for menu of defrost control (חסח = menu is invisible, 2.955= Parameters of menu are changeable, 2.00= Parameters of menu are only visible.)								
RRL	Security parameter for menu of alarm control ("00" = menu is invisible, P. YES= Parameters of menu are changeable, P.00= Parameters of	of menu a	re only v	visible.)	,				
<u><b>R_FES</b></u> Security parameter for refrigeration setpoint value ( <i>P.YE5</i> = Setpoint value is invisible., <i>P.no</i> = Setpoint value is only visible.)									