

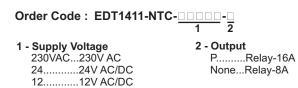
Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. CAL Controls shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation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

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CAL EDT1411 THERMOSTAT

Thank you for choosing the CAL EDT1411 thermostat.

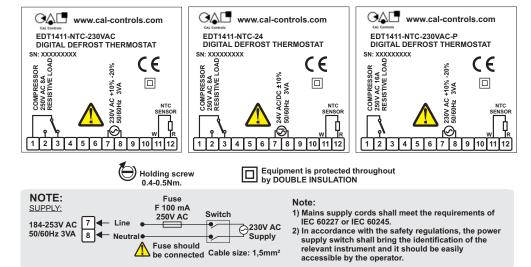
- * 34 x 77mm sized.
- * On-Off control.
- * Single contact output for cooling control.
- * NTC probe input for cold room temperature.
- * Offset value can be entered for NTC probe.
- * Compressor protection parameters can be entered.
- * In the case of probe failure, output state can be selected on or off or periodical running.
- * Upper and lower limits of the setpoint can be adjusted.
- * Defrosting duration and interval can be adjusted.
- * 16 different warning tones.
- * Upper and lower limits of the alarm value can be adjusted depending on the setpoint value.
- * CE marked according to European Norms.



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 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.



Technical Specifications

Safety requirements

ENVIRONMENTAL CONDITIONS					
Ambient/storage temperature	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				
Do not use the device in locations subject to corrosive and flammable gasses.					

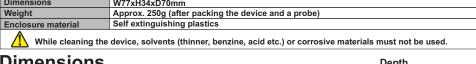
ELECTRICAL CHARACTERISTICS				
230V AC +%10 -%20, 50/60Hz or 24V AC/DC ±%10, 50/60Hz or 12V AC/DC ±%10, 50/60Hz.				
Max. 3VA				
2.5mm² screw-terminal connections.				
-50.0 +110.0°C (-58.0 +230.0°F)				
0.1°C / ±1°C				
(±%1-15sec) for hour unit, (±%1-1sec) for minute unit				
4 digits, 12mm, 7 parts yellow LED				
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)				

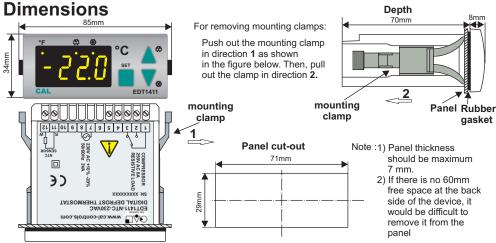
OUTPUT		
COMPRESSOR	For EDT1411-NTC-XX; Relay: 250V AC, 8A (for resistive load), NO+NC;	
	1/2 HP 240V AC Cos⊕ = 0.4 (for inductive load)	
	For EDT1411-NTC-XXP; Relay: 240V AC, 16A (for resistive load), NO;	
	1 HP 230V AC Cos⊕ = 0.5 (for inductive load)	
Life expectancy for relay	For EDT1411-NTC-XX; Mechanical 30.000.000; Electrical 100.000operation.	
	For EDT1411-NTC-XXP; Mechanical 30.000.000; Electrical 30.000operation.	

EN 61010-1: 2001 (Pollution degree 2, overvoltage category II)

CONTROL	
Control type	Single-setpoint control
Control algorithm	On-Off control
Hysteresis	Adjustable between 0.1 20.0°C.

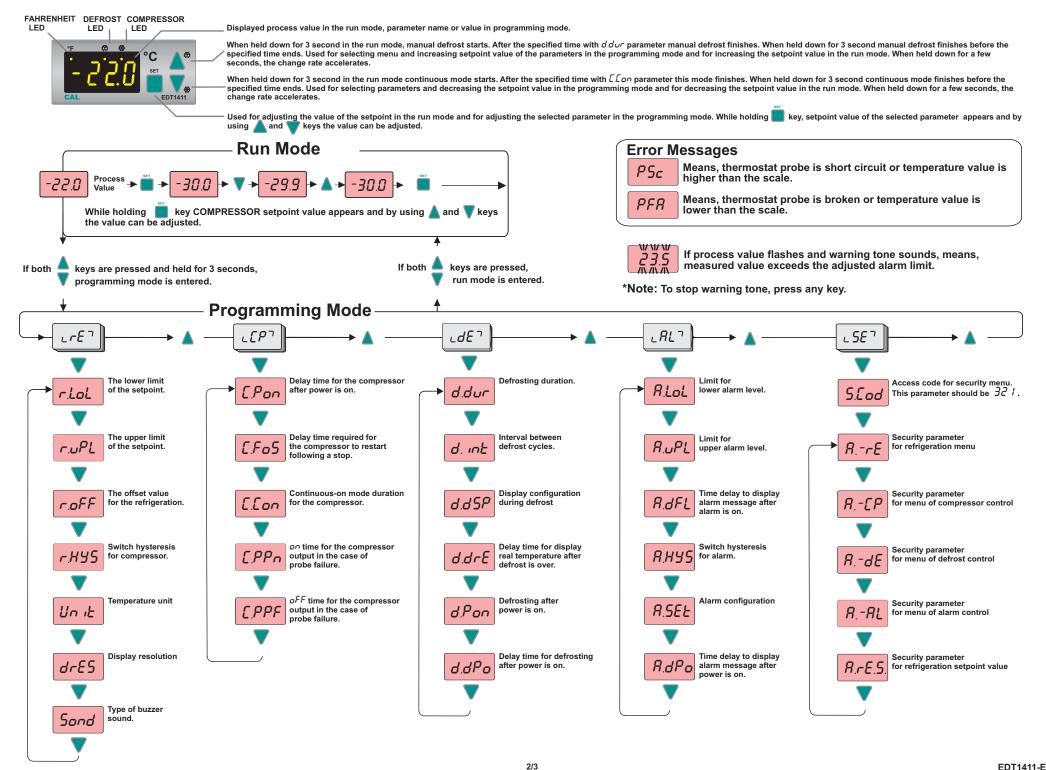
HOUSING		
Housing type	Suitable for panel mounting.	
Dimensions	W77xH34xD70mm	
Weight	Approx. 250g (after packing the device and a probe)	
Enclosure material	Self extinguishing plastics	
A		



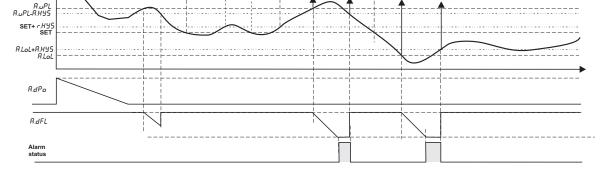


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EDT1411-E-06



NOTE: Variables for lower and upper alarm level are determined according to $8.5\xi\xi$ parameter. If $8.5\xi\xi$ = $8.8\xi\xi$, then $8.1\xi\xi$, then $8.1\xi\xi$ = $8.1\xi\xi$, then $8.1\xi\xi$ = $8.1\xi\xi$, then $8.1\xi\xi$ = $8.1\xi\xi$.

LrE7	Menu of Refrigeration control parameters	MİN	MAX	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	
Unit	Temperature unit	°C	°F		°C	
drE5	Display resolution (<i>∩</i> = no decimal point, <i>Y</i> = with decimal point.)	n	3		n	
Sond	Type of buzzer sound (16 different warning tones can be selectable. If 5ond=0, then warning tone is disable.)	0	16		0	
LEP7	Menu of Compressor control parameters			•		
[Pon	Delay time for the compressor after power is on.	0	255	min.	1	
CFo5	Delay time required for the compressor to restart following a stop.	0	255	min.	1	
[.Eon	Continuous-on mode duration for the compressor.	0.0	24.0	h.	0.1	
[PPn	on time for the compressor output in the case of probe failure.	0	255	min.	0	
[PPF	oFF time for the compressor output in the case of probe failure.	0	255	min.	1	
rqE J	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.d5P	Display configuration during defrost ($rERL$ = Real temperature is displayed during defrost. $dEF=dEF$ message is displayed during defrost.)	rERL	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.(\mathcal{G} =Defrosting begins when power is on, α =Defrosting doesn't begin when power is on.)	n	y		n	
d.dPo	Delay time for defrosting after power is on.	0	30	min.	1	
LRL	Menu of Alarm control parameters					
R.LoL	Limit for lower alarm level.	-50.0	R.uPL	°C	-50.0	
A.uPL	Limit for upper alarm level.	R.LoL	110.0	°C	110.0	
A.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 ($RRb5$ = Absolute alarm. Alarm values are $RLoL$ and $RUPL$. RREF = Relative alarm. Alarm values are $SEL-RLoL$ and $SEL+RUPL$.)	яяьѕ	A.rEF		R.R65	
A.dPo	Time delay to display alarm message after power is on.	0	23.5	hr.	0.3	
LSET	Menu of Parameter security					
RrE						
R[P	Security parameter for menu of compressor control (nonE= menu is invisible, P.3E5= Parameters of menu are changeable, P.no= Parameters	eters of	menu are	only v	risible.)	
RdE	Security parameter for menu of defrost control (nonE= menu is invisible, P.YE5= Parameters of menu are changeable, P.no= Parameters of menu are only visible.)					
AAL	Security parameter for menu of alarm control (nonE= menu is invisible, P. 4E5= Parameters of menu are changeable, P. no= Parameters of menu are changeable,	of menu a	are only	/isible.)	
R.r.E.S.	Security parameter for refrigeration setpoint value (P.925= Setpoint value is invisible., P.no= Setpoint value is only visible.)					
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