

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.

ENDA EDT1423 TEMPERATURE CONTROLLER

Thank you for choosing ENDA EDT1423 temperature controller.

- * 35 x 77mm sized.
- * On-Off control.
- * 3 contact outputs for cooling, defrost and fan controls.
- * 2 NTC probe inputs for cooling and defrost control.
- * 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, off or periodical running.
- * Upper and lower limits of the setpoint can be adjusted.
- * Defrosting duration and interval can be adjusted.
- * Time and evaporator temperature dependent or manual defrosting is possible.
- * Fan may be operated depending on defrost and compressor.
- * Temperature unit can be selected °C or °F.
- * Upper and lower limits of the alarm value can be adjusted depending on the setpoint value.
- * CE marked according to European Norms.

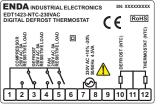
Order Code : EDT1423-NTC-

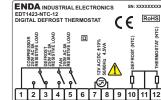
Supply Voltage 230VAC...230V AC 24.....24V AC/DC 12.....12V AC/DC

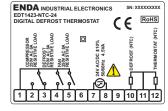
Connection Diagram



ENDA EDT1423 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.







R_NHS

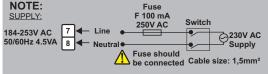
Compliant

CE

FND/







Note:

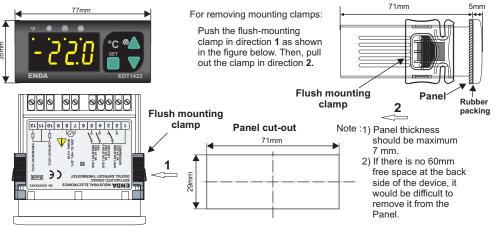
RoHS

- 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.

Technical Specifications

Ambient/storage	0 +50°C/-25 70°C (with no icing)
temperature	
Max. relative humidity	80%, up to 31°C decreasing linearly 50% at 40°C
Rated pollution degree	According to EN 60529 Front panel : IP65
	Rear panel : IP20
Height	Max. 2000m
Do not use the dev	vice 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. 4.5VA
Wiring	2.5mm ² 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, 12.5mm, 7 segment 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)
OUTPUTS	
Compressor	Relay: 250VAC, 8A (for resistive load),NO+NC; 1/2 HP 240VAC Cos = 0.4 (for inductive load
Defrost	Relay: 250VAC, 8A (for resistive load),NO; 1/2 HP 240VAC Cos = 0.4 (for inductive load)
Fan	Relay: 250VAC, 8A (for resistive load),NO; 1/2 HP 240VAC Cos = 0.4 (for inductive load)
Life expectancy for relay	Mechanical 30.000.000; Electrical 100.000 operation.
CONTROL	
Control type	Single-setpoint, alarm and fan control
Control algorithm	On-Off control
Hysteresis	Adjustable between 0.1 20.0°C.
HOUSING	
Housing type	Suitable for flush-panel mounting.
Dimensions	W77xH35xD71mm
Weight	Approx. 223g (after packing)
Enclosure material	Self extinguishing plastics

Dimensions



SISEL MÜHENDISLIK ELEKTRONIK SAN. VE TIC. A.S. Yukarı Dudullu Barbaros Cad. Kutup Sok. No:20 34775 - ÜMRANİYE/İSTANBUL/TÜRKİYE Tel: +90 216 499 46 64 Pbx. Fax: +90 216 365 74 01

url : www.enda.com.tr

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Depth

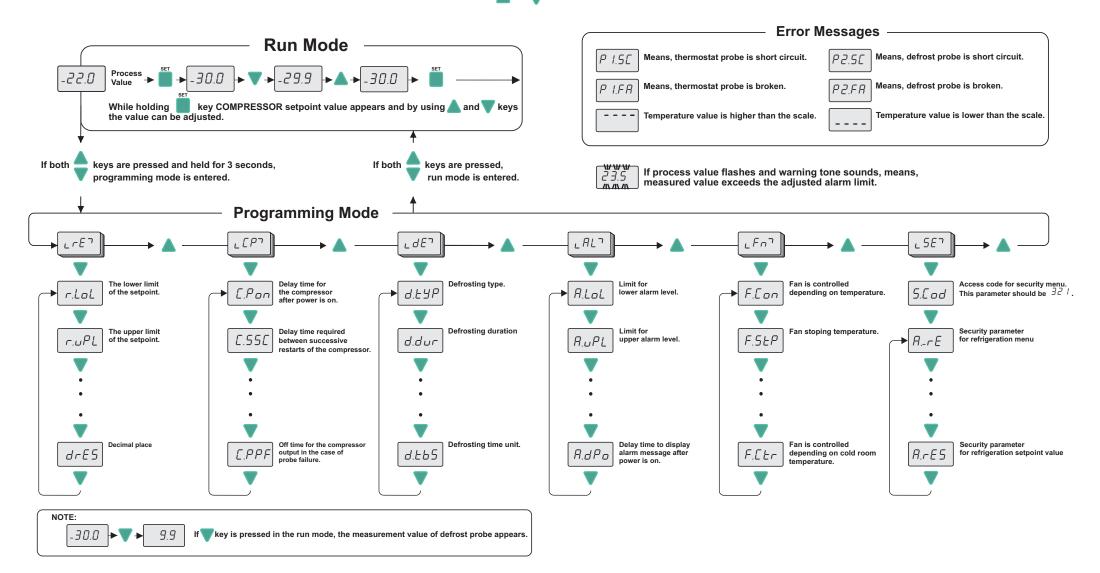
FAHRENHEIT FAN DEFROST COMPRESSOR

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

When held down for 3 second in the run mode, manual defrost starts. After the specified time with $d.d\, ur$ parameter manual defrost finishes. When held down for 3 second manual defrost finishes before the specified time ends. Used for selecting menu and increasing setpoint value of the parameters in the programming mode and for increasing the setpoint value in the run mode. When held down for a few seconds, the change rate accelerates.

Used for selecting parameters and decreasing the setpoint value in the programming mode and for decreasing the setpoint value in the run mode. When held down for a few seconds, the change rate -accelerates.

- Used for adjusting the value of the setpoint and displaying the value measured by defrost probe in the run mode and for adjusting the selected parameter in the programming mode. While holding 📃 key, setpoint value of the selected parameter appears and by using 🔺 and 🤍 keys the value can be adjusted.



EDT1423 PARAMETER TABLE

ردوم	Menu of Refrigeration control parameters	MIN	МАХ	UNIT	DEF.SET		
r.LoL	The lower limit of the setpoint.	-50.0	r.uPL	°C	-50		
r.uPL	The upper limit of the setpoint.	r.LoL	110.0	°C	110		
r.oFF	The offset value for the refrigeration.	-20.0	20.0	°C	0		
r.HYS	Switch hysteresis for compressor.	0.1	20.0	°C	2		
Unit	Temperature unit	°C	°F		°C		
drES	Decimal place (<i>no</i> = no decimal point 22° C, 325 with decimal point 22.3° C.)	по	<i>4E5</i>		по		
נףי	Menu of Compressor protection parameters						
E.Pon	Delay time for the compressor after power is on.	0	255	min.	1		
E.55E	Delay time required between successive restarts of the compressor.	0	255	min.	1		
C.FoS	Delay time required for the compressor to restart following a stop.	0	255	min.	0		
C.dly	Compressor protection delay (??= no delay, ⁹²⁵ = 3sec. delay)	по	<i>9ES</i>		по		
[.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		
LGE _	JE ⁷ Menu of Defrost protection parameters						
d.ŁУР	Defrosting type (<i>ELL</i> = Electrical defrost, GBS = hot gas defrost)	ELC	GRS		ELC		
d.dur	Defrosting duration.(If $d.dur=0$, then defrost is disable.)	0	255	min. sec.	1		
d. int	Interval between defrost cycles.	1	120	h. min.	1		
d.SEP	Defrosting temperature. If evaporator temperature is higher than this value, defrosting is disabled.	-50.0	110.0	°C	2		
d.d SP	Display configuration during defrost						
		rEAL	Loĺ		LoC		
	$(r \in H L =$ Real temperature is displayed during defrost. $L \sigma L =$ The temperature which is measured before defrost is displayed during defrost.)						
				min,			
d.drE	Delay time for display real temperature after defrost is over.	0	255	<u>sec.</u>	1		
d.Pon	Defrosting after power is on.($9E5$ =Defrosting begins when power is on, no =Defrosting doesn't begin when power is on.)		<i>9</i> E5		по		
d.dPo	Delay time for defrosting after power is on.	0	30	min.	1		
d.drt	Drop (Drainage) time	0	15	sec.	2		
d.AAc	Time interval required for alarm activation after completing defrosting	0	15	<u> </u>	2		
d.d[P	Delay time for the compressor at hot gas defrosting (Delay time is adjusted by using Por , $L55C$ and $CFo5$)	0	9E5		0		
d.£65	Defrosting time unit (Hour= Hour, minute 582=Minute,second)	Hour	SEC		Hour		
LAL	Menu of Alarm control parameters						
R.LoL	Limit for lower alarm level. When <i>R.ŁYP</i> is changed, <i>R.LoL</i> should be readjusted.	-50.0	A.uPL	°C	-50		
A.uPL	Limit for upper alarm level. When R,LYP is changed, R,uPL should be readjusted.		110.0	°C	110		
R.JFL	Time delay to display alarm message after alarm is on.		255	min.	0		
<i>R.</i> HYS	Switch hysteresis for alarm.	0.0	15.0	°C	2		
А.ЕУР	Alarm configuration ($R,Rb5$ = Absolute alarm. Alarm values are R,LoL and R,UPL . R,FEF = Relative alarm. Alarm values are SET- R,LoL and SET+ R,UPL .)	А.АЬ5	R.rEF		R.A.5		
A.dPo	Time delay to display alarm message after power is on.	0	24.0	h.	0.1		
	$ $						
F.Con	Fan is controlled depending on temperature (<i>no=</i> independent on temperature, ⁹ <i>Ε</i> 5= dependent on temperature.)	по	9E5		УES		
F.SEP	Fan stopping temperature. If evaporator temperature is above this parameter, fan stops	-50.0	110.0	°C	1		
F.HYS	Switch hysteresis for fan	0	15.0	°C	2		
F.E.SE	Does fan stop when compressor stops? (no =Fan status doesn't change, $5E$ Fan stops with compressor.)		965	-	- 9E5		
F.dSE	Does fan stop during defrosting? (no=Fan status doesn't change, 55 = Fan stops during the defrosting.)		<i>9E5</i>		<i>9</i> £5		
F.Pon	Delay time for the fan after power is on.		255	min.	1		
F.SEd	Delay time for the fan after defrosting is over.	0	255	min. sec.	2		
F.[Er	Does the fan control depend on the temperature of cold room? If (22) is calculated for store while superstarts temperature is above the value of $55P$, parameter 16(455) is calculated			2 000.	по		
נ52	Menu of Parameter security						
RrE	Security parameter for refrigeration menu.						
R[P	Security parameter for menu of compressor control.						
RdE	Security parameter for menu of defrost control.						
AAL	Security parameter for menu of alarm control.						
A.Fn	Security parameter for menu of fan control.	ie only	visible.				
R.r.E.S.	Security parameter for refrigeration setpoint value (P.9E5= Setpoint value is changeable., P.no= Setpoint value is only visible.)						