

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.

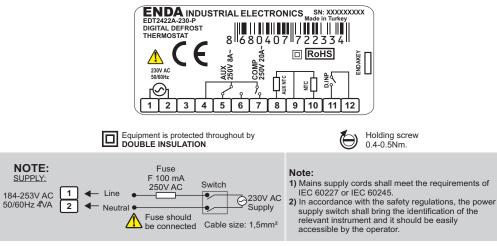
ENDA EDT2422A DIGITAL THERMOSTAT

Thank you for choosing ENDA EDT2422A digital thermostat.

- 35x77mm size.
- On-Off control.
- Relay output selection feature for defrost or lighting
- Two NTC probe input.
- Cooling offsetpoint can be entered for NTC input.
- AUX Relay output can be operated by according to AUX NTC input.
- Compressor protection parameters can be entered.
- In case of probe failure, compressor operation can be set to ON, OFF or periodic.
- Lower and upper limits of the setpoint can be set.
- Smart defrost feature.
- Defrost time and interval can be adjusted.
- 6 different warning tones.
- Lower and upper alarm limit can be set to dependent on setpoint.
- Temperature can be displayed in ° C or ° F.
- Defrost output can be triggered by external digital input.
- Transfer device parameter settings with
- ENDA key no power-up required.
- EN standartlarına göre CE markalı.



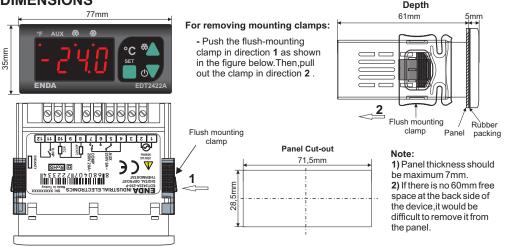
ENDA EDT2423A is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables 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.



ENVIRONMENTAL CONDITIC					
Ambient/storage temperature	0 +50°C/-25 70°C (without icing)				
Relative humidity	Relative 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				
	n locations subject to corrosive and flammable gasses.				
ELECTRICAL CHARACTERIS					
Supply voltage	230V AC +%10 -%20, 50/60Hz ; 12V AC/DC ± %10 or 24V AC/DC ±%10				
Power consumption	Max. 5VA				
Connection	2.5mm ² 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					
Compressor relay output	Relay : NO+NC 277V AC, 20A (for resistive load), 1/2hp, 0.37kW 277V AC (for inductive load)				
AUX relay output	Relay : NO 250V AC,8A (for resistive load),1/2hp, 0.37kW 240V AC(for inductive load)				
Life expectancy for Compressor Relay	Without load 10.000.000 switching; 277V AC, 20A (resistive load) 100.000 switching				
Life expectancy for AUX Relay	Without load 30.000.000 switching; 250V AC, 8A (resistive load) 100.000 switching.				
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	W77xH35xD61mm				
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.

DIMENSIONS

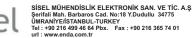




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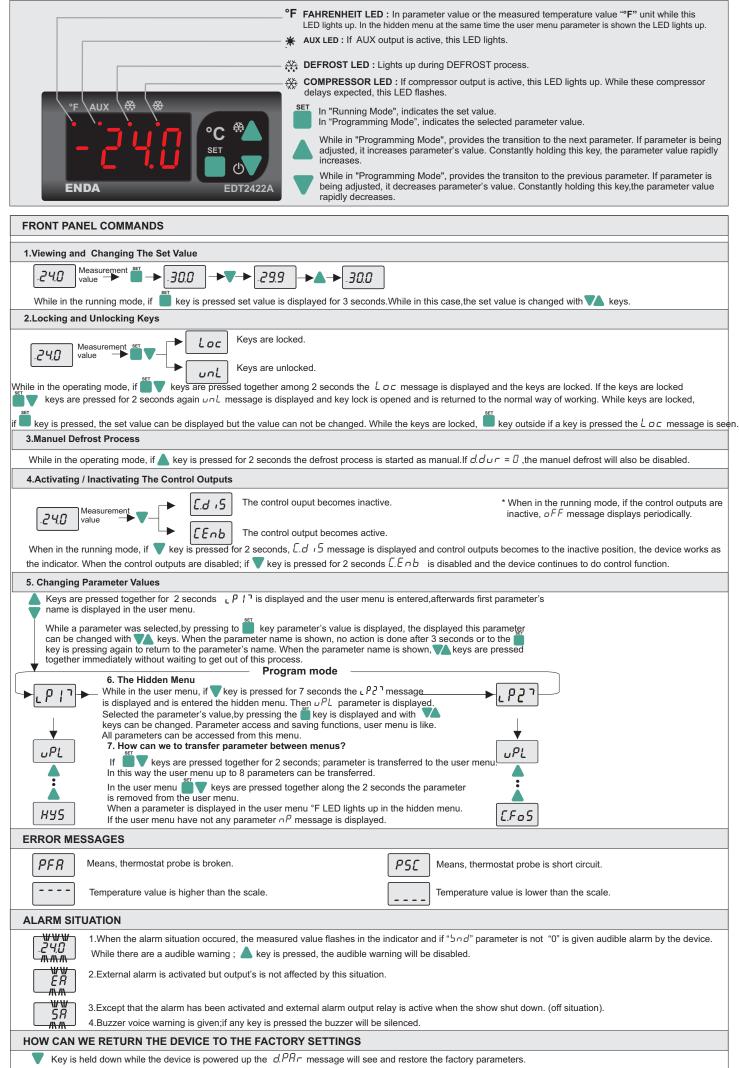


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ENDAKEY PARAMETER TRANSFER



TRANSFERRING THE PARAMETERS FROM ENDAKEY TO DEVICE

While in "Running Mode", if ∇ key on device or "Read" button on "ENDAKEY" is pressed, "dL" message appears on display and parameters are read and transferred to the device. If the parameter transfer is successful, the " $r \xi F$ " message appears and the device begins to work with the loaded parameter values. If the parameters are wrong, incorrect or "ENDAKEY" is faulty, " $\xi r r$ " message appears. Parameters will not be changed on device.

TRANSFERRING THE PARAMETERS FROM DEVICE TO ENDAKEY

While in "Running Mode", if \triangle key is pressed on device, " ωL " message appears on display and parameters are read and transferred to the device. If process succes, " $S_{\omega c}$ " message appears. In case of failure, "Err" message appears. Parameters will not be changed on device.

NOTE 1 : No power-up required for transfering the parameter by using "ENDAKEY". For long battery life, "ENDAKEY" must be disconnected from device after the transferring process. NOTE 2 : Please specify at order "ENDAKEY" if required.

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
KYS	Cooling hysteresis	0. 1	20.0	°C	2
oFF	Cooling offset value	-20.0	20.0	°C	0
CONFIG	URATION PARAMETERS			1	
С.Е УР	Control type selection (HE = (*) heating control is selected, Lo = Cooling control is selected.) <i>L</i> : <i>L</i> : <i>PP</i> parameter as <i>HE</i> is selected, the defrost function of the device is disabled.	[o	HE		۵۵
Un it	Temperature unit (Devices with part code suffix 'F' have deg F as the default 'Unit').	°C	°F		°C
dPnt	Decimal point (no= decimal point isn't shown 22°C, 9E5=decimal point is shown 22.3°C.)	00	<i>9</i> 85		no
Snd	Buzzer sound type selection (6 different sound types can be selected, if 0 is selected, sound warning is canceled during alarm).	0	6		0
d. inP	Digital input types. nd :Digital input unused. \mathcal{ER} : External alarm. \mathcal{ER} message flashes in the display. Output unchanged. 5 \mathcal{R} : Important external alarm. 5 \mathcal{R} message flashes in the display. Relay output is turned off. \mathcal{HE} : Control type. \mathcal{EESP} parameter is changed. (If $\mathcal{HE} = \mathcal{Lo}$, If $\mathcal{Lo} = \mathcal{HE}$) $d\mathcal{F}$: Defrost operation is started.	nd	dF		nd
dd i	Digital input delay. The period of the digital inputs to be active.	0:00	99:00		0:00
dPo	Digital input polarity. cL = While a digital input contact is closed, it is activated. oP= While a digital input is opened, it is activated.	EL	٥Р		EL
COMPR	ESSOR PROTECTION PARAMETERS				
[.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		0:00	99:00	min:sec	0:00
<u>L.PPn</u> [.PPF	On time for the compressor output in the case of probe failure. Off time for the compressor output in the case of probe failure	0:00	99:00	min:sec	1:00
	ST CONTROL PARAMETERS	0.00	00:00	mm:sec	1.00
d.Snt	Smart Defrost selection (na : Defrost counter (between 2 defrost duration) decrease irrespective of <i>d</i> . <i>inc</i> status of the compressor. 455 : Defrost counter decreases as long as compressor work).	no	YE S		no
d.dur	Defrost duration (If $d_{.}d_{}r=0$, automatic and manual defrost are disabled.)	0:00	99:00	min:sec	1:00
d. int	The time between 2 consecutive defrosts.	1:00	99:00	hr:min	1:00
d.d 5 P	During defrost, display configuration ($r \xi$ = Real temperature is displayed during defrost. ($t c$ = The temperature which is measured before defrost is displayed during defrost.	Lc.	٢E		Lc.
d.dr E	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 ($n o =$ Defrost process doesn't start when the energy comes. $rac{1}{2}E$ 5=Defrost process starts when the energy comes.)	00	<i>4</i> £5		00
d.dPo	Delay time for defrosting after power is on.	0:00	99:00	min:sec	1:00
ALARM	CONTROL PARAMETERS		1		
8	Limit for upper alarm level. When $R_L \mathcal{GP}$ is changed, $R_U \mathcal{P}L$ should be readjusted.	RLoL	150.0	°C	150
RLoL	Limit for lower alarm level. When $RLYP$ is changed, $RLoL$ should be readjusted.	-60.0	RUPL	°C	-60
RHYS	Hysteresis alarm	0.1	20.0	°C	2
Я.Ŀ УР	Alarm configuration. (RbS = Independent alarm. Alarm values are $RLoL$ and $R_{U}PL$.) (rEF = Relative alarm. Alarm values are $5EF - RLoL$ and $5EF + R_{U}PL$.) NOTE: Upper and Lower alarm level variables are determined according to the " $REYP$ " parameter. If $REYP = RbS$, $RLoL$ and $R_{U}PL$.	ЯЬ5	rEF		ЯЬ5
0.151	If $REYP = rEF$, $LoL = 5EF - RLoL$ and $RuPL$.				
RdFL	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
AUX CC	NTROL PARAMETERS				
o.SEE	AUX Output setpoint.	-600	150.0	°C	-20.0
o.HYS	AUX Output hysteresis.	0.1	20.0	°C	2.0



