

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.

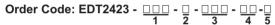
## CAL EDT2423 TEMPERATURE CONTROLLER

Thank you for choosing **CAL EDT2423** temperature controller.





- \* 35x77mm.
- \* On-Off control.
- \* Three relay outputs for cooling, defrost and fan control.
- \* Two NTC probe inputs for cooling and defrost control.
- \* Offset value can be entered for NTC input.
- \* Compressor protection parameters.
- \* On probe failure, output status can be set to ON, OFF or periodic.
- \* Defrost initiated by evaporator temperature, time dependent or manual operation.
- \* Upper and lower limits of the setpoint adjustment.
- \* Defrost duration and interval can be adjusted.
- \* Deviation high and low alarm values.
- \* Temperature unit can be selected °C or °F.
- \* Digital input (Optional).
- External alarm.
- Initiate defrost.
- \* Transfer device parameter settings with CAL key no power-up required.
- \* RS485 ModBus protocol communication feature (optional).
- \* Real Time Clock for defrost and energy-saving feature.
- \* CE marked according to European Norms.



	.,	
110	110V AC	
230	230V AC	
24	24V AC/DC	

1 - Supply Voltage

12......12V AC/DC SM......9-30V DC/7-24V AC

3-RTC Real time clock (optional)

2-Output R...... 8A relay output 4- ModBus

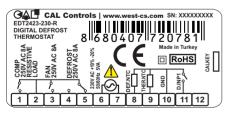
RS......ModBus (optional)

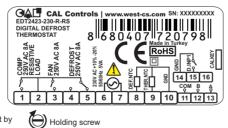
5- Temperature Unit Selection

None......Celsius F.....Fahrenheit

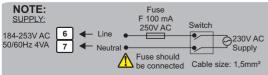


CAL EDT2423 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables 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.





Equipment is protected DOUBLE INSULATION Equipment is protected throughout by

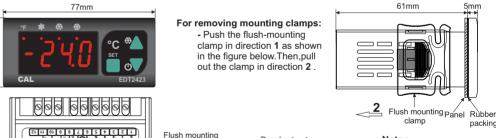


0.4-0.5Nm.

- 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.

Ambient/storage tompo	rature 0 +50°C/-25 70°C (without icing)	
	Max. humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.	
Relative humidity	7 1 1	
Protection class	According to En60529; Front panel: IP65 Rear panel: IP20	
Height	Max. 2000m	
Do not use the	device in locations subject to corrosive and flammable gasses.  RACTERISTICS	
Supply voltage	230V AC +%10 -%20, 50/60Hz or 12/24 V AC/DC ± %10	
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: 2012	
Safety requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)	

OUTPUTS						
Compresor relay output	For EDT2423-X-R; Relay:NO 250V AC,8A (resistive load), 1/2HP, 0.37KW 240V AC (inductive load)					
Defrost relay output	For EDT2423-X-R; Relay:NO+NC 250V AC,8A (resistive load), 1/2HP, 0.37KW 240V AC (inductive load)					
Fan relay output	For EDT2423-X-R Relay; :NO 250V AC,8A (resistive load), 1/2HP, 0.37KW 240V AC (inductive load)					
Life expectancy for relay	For EDT2423-X-R; Without load 30.000.000 switching; 250V AC, 8A resistive load 100.000 electrical operation.					
CONTROL						
Control type	Single set-point, alarm and fan 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, benzine, acid etc.) or corrosive materials must not be used.						



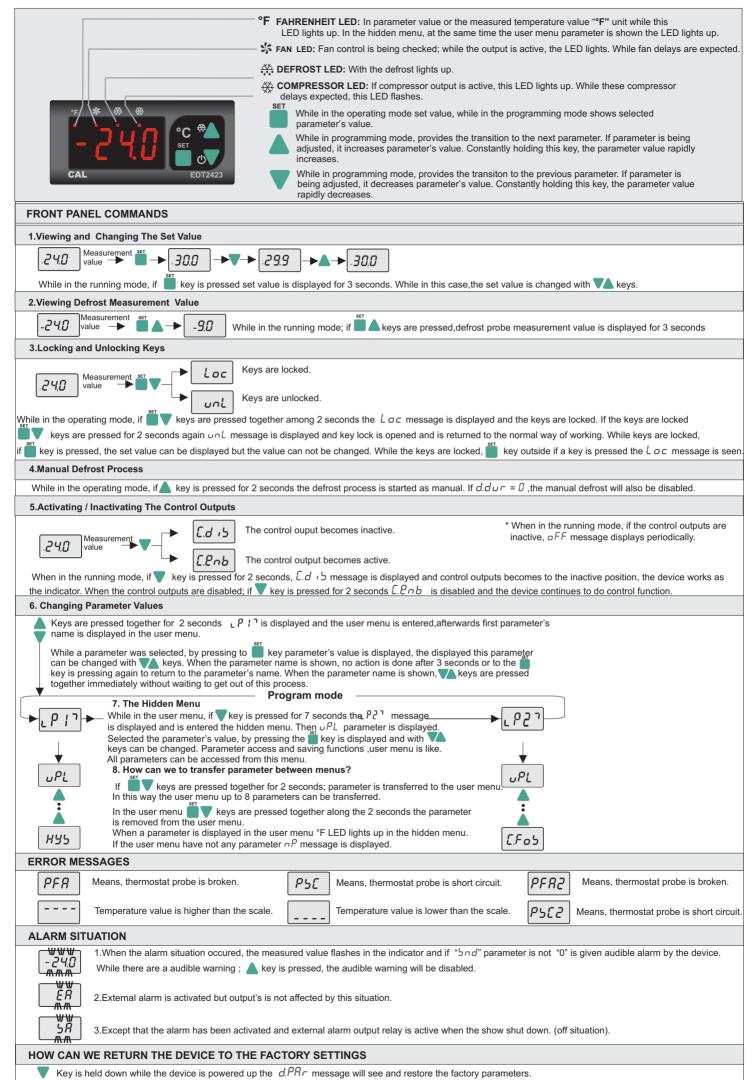
Flush mounting Panel cut-out clamp 71.5mm

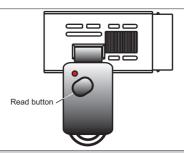
Note:

1) Panel thickness should be maximum 7mm. 2) If there is not 60mm free space at the back side of the device.it would be difficult to remove it from the panel.

По вопросам продаж и поддержки обращайтесь:

Астана +7(7172)727-132, Волгоград (844)278-03-48, Воронеж (473)204-51-73, Екатеринбург (343)384-55-89, Казань (843)206-01-48, Краснодар (861)203-40-90, Красноярск (391)204-63-61, Москва (495)268-04-70, Нижний Новгород (831)429-08-12, Новосибирск (383)227-86-73, Ростов-на-Дону (863)308-18-15, Самара (846)206-03-16, Санкт-Петербург (812)309-46-40, Саратов (845)249-38-78, Уфа (347)229-48-12 Единый адрес: wts@nt-rt.ru www.west.nt-rt.ru





## HOW CAN WE DOWLOAD THE PARAMETERS FROM CALKEY TO THE DEVICE?

While in the running mode; if key or "Read" button (in CALKEY) are pressed; is displayed "d"." message and parameters are read in CALKEY. "d"." message appears when the key is pressed again, reading parameter values from the CALKEY are transferred to the device. If the parameter transfer is successful, "r"." E" message is displayed and the device begins to work with downloaded parameters value. The parameter in the CALKEY, while belonging to a different device of if there is a malfunction in the CALKEY. "E" message is displayed and the parameters of the device unchanged.

## HOW CAN WE UPLOAD THE PARAMETERS FROM DEVICE TO THE CALKEY?

While in the running mode; if  $\triangle$  key is pressed " $\cup$ " message is displayed and again  $\triangle$  key is pressed; if there is no error ,the parameters in the device are loaded in to the CALKEY and " $\cup$ " message is displayed. If there is a malfunction in the device and the installation failed " $\in$ " message is displayed.

NOTE 1: To the device without energy, the parameter transfer is done with CALKEY. The battery inside the CALKEY for a longer period of time; after the parameter transfer process, the connection between the CALKEY and the device should be disconnected.

CONT	ROL PARAMETERS	MIN.	MAX.	UNIT	DEF. SE
υPL	The upper limit of the setpoint	-60.0	υPL	°C /°F	150
	The lower limit of the setpoint	LoL	150.0	°C /°F	- 50
	Switch hysteresis for compressor (hysteresis)	D. 1	20.0	°C /°F	2
	The offset value for the refrigeration	- 20.0	20.0	°C /°F	0
	IGURATION PARAMETERS				
Unit	Temperature unit (Devices with part code suffix 'F' have deg F as the default 'Unit').	°C	°F		°C
dPnE	Decimal point ( $n = 1$ decimal point isn't shown $22^{\circ}$ C, $9E_{5}$ =decimal point is shown $22.3^{\circ}$ C.)	no	<i>YE</i> 5		no
d. inP	Digital input types. $nd$ : Digital input unused. $ER$ : External alarm. $ER$ message flashes in the display. Output unchanged. $SR$ : Important external alarm. $SR$ message flashes in the display. Relay output is turned off. Fan: Enable or disable $dF$ : Defrost operation is started.	nd	dF		nd
dd ,	Digital input delay. The period of the digital inputs to be active.	00:00	99:00		1:00
dРo	Digital input polarity. c L = While a digital input contact is closed,it is activated.	ΕL	oΡ		ΕL
COM	σ <sup>ρ</sup> = While a digital input is opened, it is activated.		_		
	PRESSOR PROTECTION PARAMETERS	00.00	00.00	Τ.	
[Pon	Delay time for the compressor after power is on.	00:00	99:00	min:sec	1:00
C.F 05	Delay time required for the compressor to restart following a stop.	00:00		min:sec	1:00
[.PPn	On time for the compressor output in the case of probe failure.	00:00		min:sec	0:00
C.PPF	Off time for the compressor output in the case of probe failure	00:00	99:00	min:sec	1:00
DEFR	OST CONTROL PARAMETERS				
d.E YP	Defrost type selection. (ELC=Electrical defrost, LR5=Hot gas defrost)	ELC	GR5		ELE
d.dur	Defrost duration (If ddur=0, automatic and manual defrost are disabled.)	00:00	99:00	min:sec	1:00
d. int	The time between 2 consecutive defrosts.	1:00	99:00	hr:min	1:00
d.5FP	Defrost shutdown temperature. (If evaporator temperature is bigger than this value, defrost is disable.)	-60	150	°C/°F	2
d.d5P	During defrost, display configuration (r E = Real temperature is displayed during defrost.  (L c = The temperature which is measured before defrost is displayed during defrost.	Lc.	ſΕ		Lc.
d.drE	Delay time for display real temperature after defrost is over.	00:00	99:00	min:sec	1:00
d.Pon	Defrosting process when the device is powered (na=Defrost process doesn't start when the device is powered.  9E 5=Defrost process starts when the device is powered.)	no	<i>YE</i> 5		no
d.dPo	Delay time for defrosting after power is on.		99:00	min:sec	1:00
d.drt	Spotting-water discharge time	00:00	99:00	min:sec	2:00
	M CONTROL PARAMETERS				
R.uPL	Limit for upper alarm level. When $REYP$ is changed, $RuPL$ should be readjusted.	R.L o L	150.0	°C/°F	150
R.L o L	Limit for lower alarm level. When $RLYP$ is changed, $RLoL$ should be readjusted.	-60.0	R.uPL	°C/°F	60
R.HY5	Switch hysteresis for alarm.	D. 1	20.0	°C/°F	2
<i>R</i> .Ŀ	Alarm configuration. ( $Rb5$ =Absolute alarm. Alarm values are $RLoL$ and $RuPL$ .)  ( $rEF$ = Relative alarm. Alarm values are SET- $RLoL$ and SET+ $RuPL$ .)  NOTE: Upper and Lower alarm level variables are determined according to the " $RLYP$ " parameter.  If $RLYP = Rb5$ , $RLoL$ and $RuPL$ .	<i>R</i> 65	rEF		ЯЬЬ
RdFL	If RLYP = rEF, LoL = SET-RLoL and RuPL. Time delay to display alarm message after alarm is on.	00.00	99:00	min:sec	0:00
<u>nort</u> 8dPo	Time delay to display alarm message after power is on.	00:00		hr:min	1.00
c.5r	The holding parameter of control outputs state when the supply is powered off.	00.00	4E2	111.111111	ye5
£.5r	The holding parameter of keypad lock state when the supply is powered off.	no	362		00
	CONTROL PARAMETERS				
F.Con	Operation of the fan with the thermostat (no=Fan runs continuously independent of the thermostat, \$\mathcal{9} = \mathcal{F}\$ = Fan works with the thermostat	no	<i>YE</i> 5		<i>YE</i> 5
F.5EP	The stop temperature of the fan	-60.0	150.0	°C/°F	1
F.HY5	The Fan differential	D. 1	20.0	°C/°F	2
F.c 5E	When the compressor stops operation of the fan. ( $no$ = retains status of the fan. $925$ = Fan stops with the compressor		YE 5		YE 5
F.d5E	Operation of the fan during defrost process.(no=retains status of the fan. 425= Fan stops during the defrost process)	no	<i>YE</i> 5		<i>YE</i> 5
F.Pon	Delay time for the fan after power is on.	00:00	99:00	min:sec	
F.SEd	After defrost ,the period for the introduction of the fan.	00:00	99:00	min:sec	
£ _ L =	Fan control to get to the room temperature? (no=evaporator temperature is higher F.5 £ P, the fan doesn't work.	22.00	00.00	mm.sec	٠٠.٠٠
F.c.Er	995=Room temperature difference between the temperature of the evaporator temperature is below of $6.5$	no	<i>4</i> 25		no

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0010d 0x000A word Delay time for the compressor after power is on.    EPpn   Readable/Writeable   1:00(60 set)	CAL EDT2423 DIGITAL THERMOSTAT MODBUS PROTOCOL ADDRESS MAP							
Data   Parameter   Paramet	1.1 HC	LDING	REG	SISTERS				
0.00000	Addi	resses		Data Content				
0.0014			word	Set value	_	Readable/Writeable	-20	
000200	0001d							
000040							ISD	
0x000d	0003d		word	Set point lower limit		Readable/Writeable		
0005d         0x0005         word         The offset value for the cooling         oFF         Readable/Writeable         B           0008d         0x0006         word         Cooling hysteresis         HB5         Readable/Writeable         2           0008d         0x0007         word         Switch hysteresis for alarm         BHB5         Readable/Writeable         2           0008d         0x0009         word         Digital input types, 0=nd; 1=ER; 2=5R; 3=HE; 4=dF         d. nP         Readable/Writeable         1:0060 se           0011d         0x0000         word         Delay time for the compressor after power is on.         CPon         Readable/Writeable         1:0060 se           0011d         0x000D         word         On time for the compressor output in the case of probe failure         EPPn         Readable/Writeable         1:0060 se           0013d         0x000D         word         Off time for the compressor output in the case of probe failure         EPPn         Readable/Writeable         1:0060 se           0013d         0x000D         word         Off time for the compressor output in the case of probe failure         EPPn         Readable/Writeable         1:0060 se           0014d         0x000D         word         Off the tom compressor output in the case of probe failure         EPPn				<u>'</u>		Readable/Writeable		
0006d         0x0006         word         Cooling hysteresis         H 95 (a padable/Writeable)         Readable/Writeable         2           0007d         0x0007 (word         Switch hysteresis for alarm         RH95 (bit)         Readable/Writeable         2           0008d         0x0008 (word)         Digital input yeps .0=nd; 1=ER; 2=5R; 3=NC; 4=dF         d.ne         Readable/Writeable         1.00(60 st           0010d         0x0009 (word)         Digital input yeps .0=nd; 1=ER; 2=5R; 3=NC; 4=dF         d.ne         Readable/Writeable         1.00(60 st           0011d         0x0000 (word)         Delay time for the compressor after power is on.         CPon         Readable/Writeable         1.00(60 st           0012d         0x000C (word)         On time for the compressor output in the case of probe failure         CPPR         Readable/Writeable         1.00(60 st           0013d         0x000D (word)         Off time for the compressor output in the case of probe failure         CPPR         Readable/Writeable         1.00(60 st           0014d (x000D (word)         Word (word)         The time between 2 consecutive defrosts.         d.ne         Readable/Writeable         1.00(60 st           0018d (x00010 (word)         Word (word)         Heroteopathy interestical defrosting after power is on.         ddPR         Readable/Writeable         1.00(60 st			word	The offset value for the cooling				
00070d         0x0007f         word         Switch hysteresis for alarm         RH95         Readable/Writeable         ∂           0008d         0x0008         word         Digital input types 0=nd; 1=ER; 2=bR; 3=HC; 4=dF         d.nP         Readable/Writeable         1.0060 se           0009d         0x0009         word         Digital input delay         dd.nP         Readable/Writeable         1.0060 se           0010d         0x0000         word         Delay time required for the compressor of the compressor of the power is on.         £Fo5         Readable/Writeable         1.00(60 se           0012d         0x0000         word         On time for the compressor output in the case of probe failure         £PpR         Readable/Writeable         1.00(60 se           0013d         0x000D         word         Off time for the compressor output in the case of probe failure         £PPR         Readable/Writeable         1.00(60 se           0014d         0x000D         word         Defrost duration         dd.n.b         Readable/Writeable         1.00(60 se           0018d         0x0001         word         Defrost duration         ddPR         Readable/Writeable         1.00(60 se           0018d         0x0011         word         Time time between 2 consecutive defrosts.         dbPR         Readable/Write	0006d	0x0006	word	-		Readable/Writeable		
0008d         0x0008         word         Digital input types .0=nd; 1=ER; 2=5R; 3=3R; 3=4E; 4=dF         d inP         Readable/Writeable         nd           0009d         0x0009         word         Digital input delay         dd in Readable/Writeable         1:00(60 st           0010d         0x000A         word         Delay time for the compressor after power is on.         £Pan         Readable/Writeable         1:00(60 st           0011d         0x000B         word         Delay time required for the compressor to restart following a stop.         £F ob         Readable/Writeable         1:00(60 st           0013d         0x000D         word         Off time for the compressor output in the case of probe failure         £PPF         Readable/Writeable         1:00(60 st           0013d         0x000D         word         Off time for the compressor output in the case of probe failure         £PPF         Readable/Writeable         1:00(60 st           0014d         0x000D         word         The time between 2 consecutive defrosts.         d ink         Readable/Writeable         1:00(60 st           0017d         0x0011         word         After the cooling process of cooling start-up delay         ddf £         Readable/Writeable         1:00(60 st           0018d         0x0012         word         Time delay to display alarm me	0007d	0x0007	word	• • • • • • • • • • • • • • • • • • • •				
0009d         0x0009         word         Digital input delay         dd /         Readable/Writeable   1:00(60 set part)           0010d         0x000A         word         Delay time for the compressor after power is on.         £Pan   Readable/Writeable   1:00(60 set part)           0011d         0x000B         word   Dot mine for the compressor output in the case of probe failure   £PPn   Readable/Writeable   0:00(60 set part)         Readable/Writeable   0:00(60 set part)           0012d   0x000D   word   0x00D   0x00D   word   0x00D   0x00D   word   0x00D   0x00D   word   0x00D   0x00D   0x00D   0x00D   0x0	0008d	0x0008	word			Readable/Writeable		
00104	0009d	0x0009	word	Digital input delay		Readable/Writeable	1:00(60 sed	
a stop.	0010d	0x000A	word	Delay time for the compressor after power is on.		Readable/Writeable	1:00(60 sed	
0.0000	0011d	0x000B	word		E.Fo5	Readable/Writeable	1:00(60 se	
00144	0012d	0x000C	word	On time for the compressor output in the case of probe failu	ure <i>[.PPn</i>	Readable/Writeable	0:00(0 sec	
0015d	0013d	0x000D	word	Off time for the compressor output in the case of probe faile	ure <i>[.PPF</i>	Readable/Writeable	1:00(60 sed	
0016d   0x0010   word   0z0010   word   0z0010   word   After the cooling after power is on.   ddPo   Readable/Writeable   1:00(60 second)   0x0011   word   After the cooling process of cooling start-up delay   ddF   Readable/Writeable   0:00(0 second)   0x0012   word   Time delay to display alarm message after alarm is on.   RdPo   Readable/Writeable   0:00(0 second)   0x0013   word   Time delay to display alarm message after power is on.   RdPo   Readable/Writeable   1:00(60 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   1:00(60 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   1:00(60 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after power is on.   RdPo   Readable/Writeable   2:00 min delay to display alarm message after p	0014d	0x000E	word	Defrost duration	d.dur	Readable/Writeable	1:00(60 sec	
October   Octo	0015d	0x000F	word	The time between 2 consecutive defrosts.	d. int	Readable/Writeable	1:00(60 mir	
O018d   Ox0012   Word   Time delay to display alarm message after alarm is on.   RdFL   Readable/Writeable   0:00(0 se	0016d	0x0010	word	Delay time for defrosting after power is on.	d.dPo	Readable/Writeable	1:00(60 sec	
1   1   1   1   1   1   1   1   1   1	0017d	0x0011	word	After the cooling process of cooling start-up delay	d.d	Readable/Writeable	1:00(60 sec	
No.	0018d	0x0012	word	Time delay to display alarm message after alarm is on.	R.dFL	Readable/Writeable	0:00(0 sec	
bigger than this value, defrost is disable.)    Description   Descriptio	0019d	0x0013	word	Time delay to display alarm message after power is on.	R.dPo	Readable/Writeable	1:00(60 mir	
0022d   0x0016   word   The stop temperature of the fan   F,5 ← P   Readable/Writeable   1	0020d	0x0014	word	Defrost shutdown temperature. (If evaporator temperature i bigger than this value, defrost is disable.)	s d.5 <i>EP</i>	Readable/Writeable	2	
0023d	0021d	0x0015	word	Spotting-water discharge time	d.drt	Readable/Writeable	2:00	
0024d         0x0018         word         Delay time for the fan after power is on.         FP on         Readable/Writeable         1:00           0025d         0x0019         word         After defrost, the period for the introduction of the fan         F.5 E d         Readable/Writeable         3:00           0026d         0x001A         word         RS485 Network address for the connection of the device. Adjutable between 1-247.         Readable/Writeable         1           0027d         0x001B         word         Baudrate (0=Off; 1=1200; 2=2400; 3=4800; 4=9600; 5=19200)         bRud         Readable/Writeable         9600           1.2 INPUT REGISTERS           Decimal Hex         Data Type         Data Content         Parameter Name         Read/Write Permission           0000d         0x0000         word         Prob-1 temperature value (°C / °F)          Only Readable           1.3 DISCRETE INPUTS           Discrete Input Addresses         Data Type         Data Content         Parameter Name         Read/Write Permission           Docimal Hex         Data Type         Data Content         Parameter Name         Read/Write Permission           00d         0x00         Bit         Output situation -1 (Defrost relay)          Only Readable <t< td=""><td>0022d</td><td>0x0016</td><td>word</td><td>The stop temperature of the fan</td><td>F.S.E.P</td><td>Readable/Writeable</td><td>1</td></t<>	0022d	0x0016	word	The stop temperature of the fan	F.S.E.P	Readable/Writeable	1	
0025d         0x0019         word         After defrost, the period for the introduction of the fan         F.5E d         Readable/Writeable         3:00           0026d         0x001A         word         RS485 Network address for the connection of the device. Adjutable between 1-247.         Readable/Writeable         1           0027d         0x001B         word         Baudrate (0=0ff; 1=1200; 2=2400; 3=4800; 4=9600; 5=19200)         bRud         Readable/Writeable         9600           1.2 INPUT REGISTERS           Decimal Hex         Data Type         Data Content         Parameter Name         Read/Write Permission           0000d         0x0000         word         Prob-1 temperature value (°C / °F)          Only Readable           1.3 DISCRETE INPUTS         Discrete Input Addresses           Decimal Hex         Data Type         Data Content         Parameter Name         Read/Write Permission           00d         0x00         Bit         Output situation -1 (Defrost relay)          Only Readable           01d         0x01         Bit         Output situation -2 (Compressor relay)          Only Readable	0023d	0x0017	word	The fan differential	F.h.Y.S	Readable/Writeable	2	
0026d         0x001A         word         RS485 Network address for the connection of the device. Adjutable between 1-247.         Readable/Writeable         1           0027d         0x001B         word         Baudrate (0=Off; 1=1200; 2=2400; 3=4800; 4=9600; 5=19200)         bRud         Readable/Writeable         9600           1.2 INPUT REGISTERS           Input Register Addresses         Data Type         Data Content         Parameter Name         Read/Write Permission           0000d         0x0000         word         Prob-1 temperature value (°C / °F)          Only Readable           0001d         0x0001         word         Prob-2 temperature value (°C / °F)          Only Readable           1.3 DISCRETE INPUTS           Discrete Input Addresses         Data Type         Data Content         Parameter Name         Read/Write Permission           Decimal         Hex         Data Type         Data Content         Parameter Name         Read/Write Permission           00d         0x00         Bit         Output situation -1 (Defrost relay)          Only Readable           01d         0x01         Bit         Output situation -2 (Compressor relay)          Only Readable	0024d	0x0018	word	Delay time for the fan after power is on.	F.Pon	Readable/Writeable	1:00	
Adjutable between 1-247.	0025d	0x0019	word	After defrost, the period for the introduction of the fan	F.5Ed	Readable/Writeable	3:00	
Input Register Addresses   Data Type   Data Content   Parameter Name   Read/Write Permission	0026d	0x001A	word		Adrb	Rdr5 Readable/Writeable		
Input Register Addresses   Data Type	0027d	0x001B	word	Baudrate (0=Off; 1=1200; 2=2400; 3=4800;4=9600; 5=192	00) <b>68ud</b>	Readable/Writeable	9600	
Decimal   Hex   Decimal   Hex	1.2 INI	PUT RE	GIST	ERS				
Type			Da	ta Data Content	Parameter	Read/Writ	e	
0000d         0x0000         word         Prob-1 temperature value (°C / °F)          Only Readable           0001d         0x0001         word         Prob-2 temperature value (°C / °F)          Only Readable           1.3 DISCRETE INPUTS           Discrete Input Addresses         Data Type         Data Content         Parameter Name         Read/Write Permission           Decimal         Hex         Only Readable         Only Readable           00d         0x00         Bit         Output situation -1 (Defrost relay)          Only Readable           01d         0x01         Bit         Output situation -2 (Compressor relay)          Only Readable			Ту	oe				
Only Readable			wo	rd Prob-1 temperature value (°C / °F)		Only Readah	ole	
1.3 DISCRETE INPUTS  Discrete Input Addresses Decimal Hex  00d 0x00 Bit Output situation -1 (Defrost relay)  01d 0x01 Bit Output situation -2 (Compressor relay)  Only Readable				Park 0.1				
Discrete Input Addresses     Data Type     Data Content     Parameter Name     Read/Write Permission       Decimal Hex     00d 0x00 Bit Output situation -1 (Defrost relay)     - Only Readable       01d 0x01 Bit Output situation -2 (Compressor relay)     - Only Readable	Otto Oxford Word							
Addresses     Data Type     Data Content     Parameter Name     Read/Write Permission       00d     0x00     Bit     Output situation -1 (Defrost relay)      Only Readable       01d     0x01     Bit     Output situation -2 (Compressor relay)      Only Readable	Discrete Input							
00d     0x00     Bit     Output situation -1 (Defrost relay)      Only Readable       01d     0x01     Bit     Output situation -2 (Compressor relay)      Only Readable	Addresses							
01d 0x01 Bit Output situation -2 (Compressor relay) Only Readable			Bi	t Output situation -1 (Defrost relay)		Only Readal	Only Readable	
	01d	0x01	Bit					
			Bit			•		

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1.4 COILS							
Coil Addresses		Data Type	Data Content	Parameter Name	Read/Write Permission	Status Value	
Decimal	Hex					Valuo	
00d	0x00	Bit	Temperature unit. OFF=°C ON=°F	טה יד	Readable/Writeable	°C	
01d	0x01	Bit	Decimal point . OFF=ヮヮ ON=ソチヒら	d.PnE	Readable/Writeable	no	
02d	0x02	Bit	During defrost, display configuration. OFF=The temperature which is measured before defrost is displayed. ( $L c$ ) ON=Real temperature is displayed during defrost process. ( $c E$ )	d.d5P	Readable/Writeable	Lc	
03d	0x03	Bit	Defrosting process begins with energy. OFF=Defrost process doesn't start when, the energy comes. (na) ON=Defrost process starts when the energy comes. (ピら)	d.Pon	Readable/Writeable	no	
04d	0x04	Bit	Alarm configuration .OFF=Absolute alarm ( $\beta b b$ ) ON=Relative alarm ( $\epsilon F$ )	R.E YP	Readable/Writeable	<i>R</i> 65	
05d	0x05	Bit	Digital input polarity. OFF=While a digital input contact is closed, it is activated. ( $cL$ ) ON=While a digital input is opened, it is activated( $aP$ )	dPo	Readable/Writeable	cL	
06d	0x06	Bit	Defrost type (OFF=Electrical defrost ( <i>ELE</i> ) ON=Hot gas defrost ( <i>ER</i> 5)	d.E YP	Readable/Writeable	ELC	
07d	0x07	Bit	Operation of the fan with the thermostat.  OFF=na  ON=9E5	F.Eon	Readable/Writeable	<i>YE</i> 5	
08d	0x08	Bit	When the compressor stops operation of the fan.  OFF=np ON=9E5	F.c 5 Ł	Readable/Writeable	<i>4</i> £5	
09d	0x09	Bit	Operation of the fan during defrost process.  OFF=na  ON=4E5	F.d5E	Readable/Writeable	<i>48</i> 5	
10d	0x0A	Bit	Fan control to get to the room temperature?  OFF=na  ON=4E5	Fietr	Readable/Writeable	no	

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