Read the user manual carefully before using the device! Responsibility for damages, losses and personal accidents caused by not following the warnings in the user manual belongs to the user. In this case, the device is out of warranty in case of malfunctions.

ENDA ECOOL1036 DIGITAL THERMOSTAT

Thank you for choosing ENDA ECOOL1036 Temperature Controller.

- 180x230x66 mm. sized,
- Control of fan cooling rooms,
- On-Off control,
- Features six relay outputs for cooling, defrost, fan, lighting, alarm and auxiliary (aux) control,
- Three NTC probe inputs for cooling, defrost, optional display,
- Two digital inputs in total, adjustable by door control and parameter,
- Offset settings that can be made for NTC probe inputs,
- Compressor protection feature with parameter,
- Compressor start, stop or periodic operation feature in probe failures,
- Selectable smart defrost feature,
- Manual fast cooling feature,
- ▶ Time and evaporator temperature dependent or manual defrosting feature,
- Ability to adjust set value lower and upper limits,
- Ability to adjust defrost time and interval,
- Ability to set lower and upper alarm limits dependent on the set value,
- Ability to display temperature units as °F and °C,
- Communication feature with RS485 ModBus RTU protocol,
- Parameter editing and uploading feature via NFC (optional),
- CE marked according to EN standards.





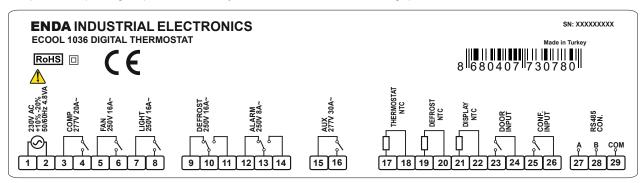
1: NFC: NFC (Optional)

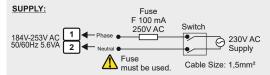


CONNECTION DIAGRAM



ENDA ECOOL1036 devices are wall mountable devices. The device must be used in accordance with the instructions. Installation and electrical connections must be made by technical personnel in accordance with the instructions in the user manual. There should be no electricity in the connecting cables during assembly. The device must be protected from moisture, vibration and pollution. Attention should be paid to the operating temperature. Assembly cables should not be routed near high power lines and devices.





Not:

1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.

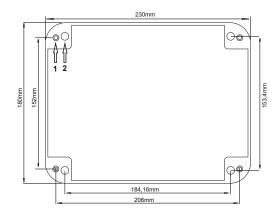
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

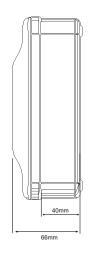
Equipment is protected throughout by DOUBLE INSULATION



Holding screw 0.4-0.5Nm.

DIMENSIONS - MONTAGE





To mounting device;

- 1) Screws at point 1 should be removed and the front cover should be removed.
- 2) It should be mounted on the wall at the points indicated by number 2.
- **3)** Electrical connection should be made by paying attention to the wiring diagram.
- 4) The cover should be closed and the removed screws should be tightened.

Note: If cable outlets are desired to be from the top rear cover with cable outlets facing up can be mounted on the wall.





TECHNICIAL SPECIFICATIONS

ENVIRONMENTAL COND	ITIONS
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	IP65 according to EN 60529 standard.
Height	Max. 2000m.
Do not use the device in	n locations subject to corrosive and flammable gasses.
ELECTRICAL CHARACTI	ERISTICS
Supply Voltage	230V AC +%10 -%20, 50/60Hz
Power Consumption	Max. 5.6VA
Connection	2.5 and 1.75 mm screw terminal connection
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	120x70mm, 3 digits and single point at the top, 4 digits and double dots at the bottom (minus digit at the top), 9 notification LEDs.
EMC	EN 61326-1: 2013
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)
OUTPUTS	
Compressor Relay Output	For resistive load: NO 277V AC 20A, for inductive load: 2hp 250V AC Life for relay: Without load 10.000.000 switching, 277V AC 20A for resistive load 100.000 switching
Defrost Relay Output	For resistive load: NO 250V AC 16A ,NC 250V AC 16A, for inductive load: 1/2hp 240V AC Life expentancy for relay: Without load: 30.000.000 switching, 250V AC, 16A for resistive load: 100.000 switching
Fan Relay Output	For resistive load: NO 250V AC 16A, for inductive load: 1/2hp 240V AC Life expentancy for relay: Without load: 30.000.000 switching, 250V AC, 16A for resistive load: 100.000 switching
Lighting Relay Output	For resistive load: NO 250V AC 16A, for inductive load: 1/2hp 240V AC Life expentancy for relay: Without load: 30.000.000 switching, 250V AC, 16A for resistive load: 100.000 switching
Alarm Relay Output	For resistive load: NO 250V AC 8A, NC 250V AC 8A for inductive load: 1/2hp 240V AC Life expentancy for relay: Without load: 30.000.000 switching, 250V AC, 8A for resistive load: 100.000 switching
Auxiliary (AUX) Relay Output	For resistive load: NO 277V AC 20A, for inductive load: 2hp 250V AC Life for relay: Without load 10.000.000 switching, 277V AC 20A for resistive load 100.000 switching
CONTROL	
Control Type	Compressor, defrost, fan, lighting, alarm and auxiliary output control with set values and digital inputs.
Control Algorithm	On-off control.
Hysteresis	Adjustable between 1 20.0°C.
HOUSING	
Housing Type	Wall mounted.
Size	180x230x66 mm
Weight	Approximately 1150g (as packaged)
Enclosure Material	Self-extinguishing plastics are used.
^	0 01
While cleaning the devi	ice, solvents (tinner, gasoline, acid etc.) or corrosive materials must not be used.

	Indicator Leds Descriptions					
Led	Descriptions					
(U)	When lit, the control is in the off state.					
***	Compressor is running while it is on, flashing, the start delay is active.					
**************************************	While lit, defrost is running, flashing, the start delay is active.					
*	While lit, fan is running, flashing, the start delay is active.					
<u>-</u> Ö <u>-</u>	When lit, the lighting is on.					
^	- When lit in "Operation Mode", the alarm is active Indicates that the parameter has been transferred to the user menu when it is lit in "Programming Mode".					
AUX	When lit, auxiliary output is active.					
°C/°F	Temperature unit indicator leds. The active one shows the relevant unit.					

	Keyboard Descriptions					
Key	Descriptions					
SET	In "Operation Mode" SET value, minimum-maximum measurement reset values, Changing the value of the selected parameter in "Programming Mode"functions.					
	Displaying the maximum temperature measured in "Operation Mode", turning off the audible warning, In "Programming Mode" it functions to increase the value of the selected parameter.					
igtriangledown	 In "Operation Mode", displaying the minimum measured temperature value, In "Programming Mode", it functions to decrease the value of the selected parameter. 					
(1)	It functions to stop the control by closing the relevant outputs of the device.					
	It starts and stops the manual fast cooling.					
<u>****</u>	It starts and stops the manual defrost.					
	It functions to activate and deactivate the lighting.					
AUX	Acts as auxiliary output activation and deactivation.					





FRONT PANEL COMMANDS

$\mathcal{L}.5\mathcal{E}$. (Cooling Set) Displaying and Changing Value

Operating Mode (Main Display)

SET

Operating Mode (Main Display)

In operating mode, the temperature value is displayed on the upper display and the SET value is displayed on the lower display. When the (SET) button is pressed,

the set value on the lower display flashes and the set value is changed with the 🔀 🛡 buttons. Then, when the SET button is pressed again, the desired value

is saved and the device returns to operating mode.

Viewing Minimum Temperature Measurement Value



If the \bigcap key is pressed while in operation mode, 3 seconds. The minimum

[-24.0] Value → (A) → [-5.0]

If the (A) key is pressed while in operation mode, 3 seconds. The maximum

temperature value measured throughout is displayed

Viewing Maximum Temperature Measurement Value

temperature value measured throughout is displayed.

Resetting Maximum-Minimum Measurement Values



In operating mode, press SET button for 7 seconds. If it is kept pressed for a while, the maximum and minimum temperature measurement values are equal to the current measurement value.

[res] message appears on the display.

Locking and Unlocking the Keys



In operating mode, first hold down the (SET) button and then press the (∇) button for 2 seconds. If pressed together throughout, the t oc message is displayed and the keys are locked. When the same operation is performed with the keys locked, the message t t is displayed on the screen.

If any key is pressed while the keys are locked, the message $L \sigma c$ is displayed.

Active / Inactivation of Control Outputs

In working mode, press button for 2 seconds. If it is pressed throughout, the led is displayed and the control outputs become inactive. When the control outputs are disabled, press the button for 2 seconds. If it is pressed throughout, the red turns off and the device continues to perform its control function. Illumination when the control is off and the AUX outputs maintain their status and the relay position can be changed when the device is off.

Manual Fast Cooling Operation

In operating mode, if the device is not defrosting and control outputs are not closed, press the the first condition where the first cooling process, it starts or stops.

Compressor runs for $\mathcal{L}F\mathcal{E}$ time. If the $\mathcal{L}F\mathcal{E}$ parameter is 0, manual rapid cooling is not performed

Manual Defrost Operation

If the control outputs are not closed in the operating mode, press the 🗱 key for 2 seconds. If pressed during the manual defrost operation is started or stopped.

Defrosting takes place as long as dti time. If dti parameter is 0, defrosting is not performed

Activating / Deactivating Lighting Output

In operating mode, press the key for 2 seconds. If pressed during, the lighting output is activated or deactivated

Auxiliary Output (AUX) Arming / Ejecting

In operating mode, press (AUX) button for 2 seconds. If pressed during the auxiliary output is enabled or disabled.

Turning Off Beep and Alarm Output

When an alarm occurs, the alarm relay is activated along with the audible warning. By pressing the key, the audible warning is turned off. Depending on the

status of the RoF parameter, the alarm relay can remain active until the alarm disappears or the alarm output can be disabled.

If the key sound is to be turned off completely, when the device is in operating mode, if the key sounds will be turned off. When the the the the the same key combination is applied to turn on the key sounds, "b - E n" is written on the screen and the key sounds are activated.

Digital Inputs

1. Door Digital Input:

When the door is opened, the alarm output is activated at the end of the digital input delay time. Other outputs are enabled or disabled according to the d lb parameter. d lo message is displayed on the display.

2. Adjustable Digital Input:

The input becomes active and the digital input becomes active at the end of the digital input delay time. Related outputs are enabled or disabled according to the d2.£ parameter. The corresponding message is displayed according to the status set on the display.

Auxiliary (AUX) Output

Auxiliary output a.t.P. It can be used in four different ways according to the parameter:

- 1- If set to non: Auxiliary output is disabled.
- 2- If it is set to #out: It can be activated or deactivated only with the AUX button on the front panel without any control.
- 3- If set to $\sigma \sigma \sigma F$: Enabled when the device is turned on, disabled when the device is turned off.
- 4- If set as $c \cap b \in \mathcal{C}$: The device performs the 2nd temperature control and the auxiliary output is activated or deactivated. In order for this control to work properly, attention should be paid to 5 parameters: P3E, o.P5, o.P5, o.P5, o.P5, o.P5.

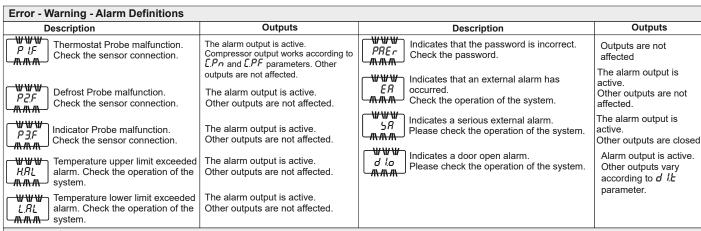
Restoring Factory Settings

Displaying the Revision Number

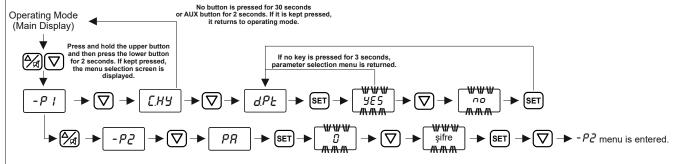
In operating mode, if (3) and then (4) keys are pressed together, (5) software code and revision date are displayed on the display, respectively







PROGRAMMING THE DEVICE



The device has 2 menus, -P I and -P2. -P I menu contains £.H9, d.P£, P£h, £.5d, d.5£, d.£ i, d.d.£, RU.5, R£.5 parameters in default settings. -P2 menu contains all parameters of the device. The user can transfer or remove parameters from the -P2 menu to the -P1 menu at his discretion.

-P2 menu; From the -P2 menu, the parameter to be transferred to the -P I menu is reached and the (1) key is pressed. The ! led lights up and the

parameter is transferred to the -P / menu. To remove the transferred parameter from the -P / menu, navigate to the relevant parameter in the -P2 menu and press

the (U) key. The ! led turns off and the parameter is removed from the -P! menu.

-P2 Password: "- 19 "

PARAMETER LIST

CONTROL	PARAMETERS	Min.	Max.	Unit	Default
E.U.L	Cooling setpoint upper limit	E.L.L.	150	°C / °F	150
E.L.L	Cooling setpoint lower limit	-60	E.U.L.	°C / °F	-60
E.HY.	Cooling hysteresis	1	20		2
oF 5.	Cooling offset value	-20	20		0
CONFIGU	CONFIGURATION PARAMETERS		Max.	Unit	Default
b.5.E	Should the buzzer be activated in alarm situations? ($n\sigma$: Don't activate, $4E5$: Activate) (Not valid for probe malfunctions)	٥٥	<i>YE</i> 5		YE5
Un i	Temperature unit	°C	°F		°C
d.PE	Decimal digit display	no	YE 5		YE 5
P.E.h	The sensor to be displayed on the display (P !: Thermostat probe, $P2$: Defrost probe, $P3$:Auxiliary probe, P ! 2 :(P !- $P2$) Temperature difference.)	P I	P 12		PI
P 3.E	Should the auxiliary probe be used?(no:Auxiliary probe inactive, 4£5:Auxiliary probe active.)	no	YE 5		no
DIGITAL II	NPUT PARAMETERS	Min.	Max.	Unit	Default
d 1.P	Door digital input polarization (cL : It is active when the digital input contact is closed, oP : It is active when it is on.)	ΣL	o٩		ΕL
d l.E.	In case the door digital input is active, output states (non : Compressor, defrost, no change in fan outputs, \mathcal{LP} : Compressor off, \mathcal{FR} : Fan off, \mathcal{LP} : Compressor and fan off, \mathcal{FR} : Fan off lighting output on, \mathcal{LFR} : Compressor and fan off lighting output on.)	non	E F.A		F.R
d 2.P.	Adjustable digital input polarization (cL : Active when digital input contact is closed, oP : It is active when it is on.)	CL	o٩		EL
d2.Ł.	Digital input types (non : Digital input not used, ER : External alarm. SR : Important external alarm. df: Defrost operation is started. $Rout$: AUX output operation.)	nd	Rout		non
d. ı.d.	Delay of digital inputs. Time it takes for digital inputs to be active.	00:00	99:59	min:sec	0:00
d. 1.E.	Delay of door digital input control. Time to activate the buzzer after the door digital input is active.	00:00	99:59	min:sec	1:00
dc.t	d. LE control activity parameter after door digital input control delay is completed. (9E5: d.LE control is disabled after d. LE. times up and lighting output is not affect by this no: d. LE. times up is not affect d. LE control .)	no	<i>YE</i> 5		no
COMPRES	SSOR PARAMETERS	Min.	Max.	Unit	Default
E.P.d.	Time to activate the compressor after energizing	0:00	99:59	min:sec	0: 10
E.5.d.	The time it takes for the compressor to restart after the stop	0:00	99:59	min:sec	1:00
E.P.n.	Compressor on time in case of probe failure	0:00	2:00	hr:min	0:10
E.P.F.	Compressor off time in case of probe failure	0:00	2:00	hr:min	0:05
E.F.Ł.	Manual rapid cooling run time	0:00	99:59	hr:min	0:00

4/8

Defined type and personal control (E.L. = Biotectic (compressors) (Fig. 1) Section (Fig. 2) Section (F	DE	FROST PARAMETERS	Min.	Max.	Unit	Default
Defined stop temperature (If the temperature selected in the "d of" parameter is higher than this value, febroat will 150 50 17 2	d.c.5.		no	<i>4E5</i>		no
200 Conditions where the deficial stop temperature is dependent (it works according to the "dSE" parameter) 201	d.EP.	Defrost type selection (\mathcal{ELL} = Electric (compressor off) defrost, \mathcal{LRS} = Hot gas (compressor on) defrost)	ELC	<i>GR</i> 5		ELC
2	d.5 E.		-60	150	°C / °F	2
P - Defroet works according to thermostate temperature (P 1), P = Defroet works according to the defrost temperature (P 2), P = Defroet works according to auditary probe temperature (P 2), P = Defroet works according to auditary probe temperature (P 2), P = Defroet works according to auditary probe temperature (P 2), P = Defroet works according to auditary probe temperature (P 2), P = Defroet works according to auditary probe temperature (P 2), P = Defroet definity time after fact cooling to auditary probe temperature (P 2), P = Defroet definity time after fact cooling to auditary probe temperature (P 2), P = Defroet definition (P 2), P Defroet definition (P 2), P Defroet definition (P 2), P D		Conditions where the defrost stop temperature is dependent (it works according to the "d.5.£." parameter)				
	d.d.o	$P \mid I = \text{Defrost works according to thermostat temperature } (P \mid I)$. $P \mid Z \mid P \mid I \mid P \mid I \mid P \mid I \mid P \mid I \mid P \mid P$	nP	Ρ3		PZ
befrost delay time after first cooling Delivest delay time after first cooling Delivest delay time after first cooling	d.E ı.	Defrost time (When $d.E$ ι = 0, automatic and manual defrost is disabled.)	0:00	99:59	min:sec	20:00
Display configuration during deficial. Display configuration during deficial. Display configuration during deficial to be that interacted during deficial to seem on the display. deficial Displaying actual temporature after deficial to seem on the display. deficial Displaying actual temporature after deficial to seem on the display. deficial Displaying actual temporature after deficial to seem on the display. Deficial starts when energy (no.) Deficial does not start when energy comes on.) deficial Displaying actual temporature after deficial to seem on the display. Deficial starts when energy (no.) Deficial does not start when energy comes on.) deficial Displaying actual temporature after deficial to seem on the display. deficial Displaying actual temporature after deficial to seem on the display. Deficial starts when energy comes on.) deficial Displaying actual temporature after depotations are seemed on the state of ES. P. B. B. F. B. F. B. F. B. F. B.	d.d.t.	Time between two successive defrosts	0:00	99:59	hr:min	6:00
# € - Adults temperative controver to the displayor during definit.	d.d.F.	Defrost delay time after fast cooling	0:00	99:59	hr:min	2:00
## Defrost operation starts with energy (no : Defrost does not start when energy comes on. ## Defrost start when energy comes on. ## Defrost operation starts with energy comes on. ## Defrost starts when energy comes on. ## Pi Defrost starts when compressor store. ## Pi Defrost starts when energy comes on. ## Pi Defro	d.d.C.	r E : Actual temperature continues to be displayed during defrost. L c : During defrost, the last measured temperature before entering defrost is seen on the display.	r٤	dEF		rE
### 25 Defrost starts when energy comes on.) ### 25 Defrost starts when energy comes on.) ### 26 Defrost starts when energy comes on.) ### 26 Defrost starts delay after energizing ### 20 Defrost starts when energy comes on.) ### 20 Defrost starts when energy comes on.) ### 20 Defrost starts when energy comes on. ### 21 Defrost starts when energy comes on. ### 21 Defrost starts when energy comes on. ### 21 Defrost starts when energy comes on. ### 22 Defrost starts when energy comes on. ### 22 Defrost starts when energy comes on. ### 23 Sea Defrost starts when energy comes on. ### 24 Defrost starts when energy comes on. ### 25 Defrost starts when energy comes on. ### 26 Defr	d.d.E.	Delay for displaying actual temperature after defrost ends	0:00	99:59	min:sec	1:00
### ### ### ### ### #### #### #### #####	d.P.r.		no	<i>4E5</i>		no
FAN PARAMETERS Fan control functions Fan stops when control control fan control functions	d.P.d.	Defrost start delay after energizing	0:00	99:59	min:sec	1:00
Fan control functions on = Fan operates depending on the states of ELS , ELS	d.E.d.	Drip (discharge) time	0:00	99:59	min:sec	2:00
$P = 1$ and operated depending on the states of $P \le 1$, $P \ge 1$,	FAI	N PARAMETERS	Min.	Max.	Unit	Default
Fifty Fan hysteresis	F.E.n	oo = Fan operates depending on the states of <i>F.E.</i> 5 , <i>F.d.</i> 5 , <i>F.P.d.</i> , <i>F.d.d.</i> , it runs continuously when not controlled by these 4 parameters. $PI = If the evaporator temperature (P2) is above F.5.E, the fan will not operate. F.5.E - F.H.Y. If it is below the value, it works.$ $PI - 2 = difference between room temperature and evaporator temperature (PI2);$	on	P I-2		PI
For the stops when compressor stops ($no = Fan$ keeps status, $9E5 = Fan$ stops together with compressor.) For the stop during defrost ($no = Fan$ keeps status, $9E5 = Fan$ stops during defrost.) For the stop during defrost ($no = Fan$ keeps status, $9E5 = Fan$ stops during defrost.) For the start the fan after defrost $00.00 = 99.99 = min.sec$ $00.00 = 99.99 = mi$	F.5 <i>E</i> .	Fan stop temperature	-60	150	°C / °F	1
Fab. Fan stop during defrost ($no = Fan keeps$ status, $9E5 = Fan stops$ during defrost.) 70 9E5 9959 min:sec 0:00 99.59 min:	FHY	Fan hysteresis	1	20		2
### Fig. 2 Time to activate the fan after energizing ### CD-00 ## Sy-59 ### min:sec ### CD-00 ### CD-00 ### Sy-59 ### min:sec ### CD-00 ### Sy-59 ### min:sec ### CD-00 ### Min. ### Max. ### Unit Default DD-00 ### D	F.E.S.	Fan stops when compressor stops (no = Fan keeps status, $YE5$ = Fan stops together with compressor.)	no	YE5		YE5
Time to start the fan after defrost 00.00 39:59 min:sec 3:00 ALARM PARAMETERS Min. Max. Unit Default	F.d.5.	Fan stop during defrost (no = Fan keeps status, $9E5$ = Fan stops during defrost.)	no	YE5		YE5
ALARM PARAMETERS Min. Max. Unit Default RUS. The alarm high setpoint may need to be reprogrammed after REP changes. RUS. The alarm high setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. The alarm lower level setpoint may need to be reprogramed after REP changes. RUS. The alarm lower level setpoint may need to be reprogramed after REP changes. RUS. The alarm lower level setpoint may need to be reprogramed after REP changes. RUS. RUS. The alarm lower level setpoint may need to be reprogramed after REP changes. RUS. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. RUS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RUS. RUS. RUS. The alarm lower level setpoint may need to be reprogrammed a	F.P.d.	Time to activate the fan after energizing	00:00	99:59	min:sec	0:00
RLLS. The alarm high setpoint may need to be reprogrammed after REP changes. RLS. The alarm high setpoint may need to be reprogrammed after REP changes. RLS. The alarm lower level setpoint may need to be reprogrammed after REP changes. RRM Alarm hysteresis I 20 2 2 RRM Alarm message display delay after alarm condition occurs RRM Alarm message display delay after energized RRM Alarm message display delay after energized RRM Alarm configuration (RbS : Absolute alarm, rEF : Relative alarm.) If REP = RBS, Alarm values are RLS and RuS. If REP = RBS, Alarm values are RLS and RuS. If REP = REPS, Alarm values are RLS = C.SE.RLS, RUS. = C.SE.RUS. ROF. Disable alarm output before alarm condition is lifted? Or = Audible alarm is silenced only, YES = Audible alarm and alarm relay are disabled.) AUXILIARY OUTPUT (AUX) PARAMETERS Or Alarm contiguration only to type (rop : cannot be used, RouE: works as auxiliary output, onoFF: works as On-off function, d r.C. Active with digital input, cnE2: works as 2nd control.) Or Proposition is made by selecting auxiliary probe (Check the P3E parameter). Or When the auxiliary output is used as cnE2, probe selection (P I: Thermostat probe, P2: Defrost probe, P1 P3 P3 P3. Or When the auxiliary output cnE2 Cooling-heating selection (RERE: Heating control. Cool: Cooling control is done) Or Set Setpoint when used as auxiliary output cnE2 Cooling control is done) Or Set Setpoint when used as auxiliary output cnE2 Cooling control is done) MID Max. Unit Default Cooling control is done) MID Max. Unit Default Cooling control is done) MID Default Cooling / heating hysteresis value when used as auxiliary output cnE2 I 200 I	F.d.d	Time to start the fan after defrost	00:00	99:59	min:sec	3:00
RLS. The alarm lower level setpoint may need to be reprogrammed after REP changes. -60 RUS. °C I°F -60 RHS Alarm hysteresis -60 RUS. °C I°F -60 RHS Alarm hysteresis -60 RUS. °C I°F -60 RHS Alarm message display delay after alarm condition occurs -60 RUS. °C I°F -60 RHS Alarm message display delay after energized -60 RUS. °C I°F -60 RHS Alarm message display delay after energized -60 RUS. °C I°F -60 RHS Alarm message display delay after energized -60 RUS. °C I°F -60 RHS Alarm configuration (Rb5 : Absolute alarm, r EF : Relative alarm.) If REP = Rb5 , Alarm values are RL5 and Ru5. If REP = Rb5 , Alarm values are RL5 = E.5E.RL5, RUS. E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RL5, RUS. = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RUS. = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RUS. = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RUS. = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RUS. = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RUS. = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 = E.5E.RU5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , Alarm values are RL5 and Ru5. RHS DISPLAY = RB5 , A	AL				Unit	Default
RM2 Alarm hysteresis I 20 2 RM2 Alarm message display delay after alarm condition occurs RM2 Alarm message display delay after energized RM3 Alarm message display delay after energized RM3 Alarm message display delay after energized RM3 Alarm configuration (Rb5 : Absolute alarm, rEF : Relative alarm.) RM3 Alarm configuration (Rb5 : Absolute alarm, rEF : Relative alarm.) RM4 EP = RB5, Alarm values are RL5 and Ru5. If REP = RB5, Alarm values are RL5 and Ru5. If REP = RB5, Alarm values are RL5 = C5E-RL5, RU5 = C.5E-RU5. RB5 Disable alarm output before alarm condition is lifted? (no = Audible alarm is silenced only, YE5 = Audible alarm and alarm relay are disabled.) AUXILIARY OUTPUT (AUX) PARAMETERS Min. Max. Unit Default Auxiliary output type (non : cannot be used, RouE: works as auxiliary output, onoFF: works as On-off function, of relative disabled input, cnE2: works as 2nd control.) P3 Control is made by selecting auxiliary probe (Check the P3E parameter). CLE When used as auxiliary output cnE2, cooling-heating selection (HERE: Heating control, Eaal: Cooling control is done) AUXILIARY OUTPUT (AUX) PARAMETERS Cobbound the used as auxiliary output cnE2 cooling control is done) CLE When used as auxiliary output cnE2 cooling control is done) CLE When used as auxiliary output cnE2 cooling control is done) CLE When used as auxiliary output cnE2 cooling control is done) CLE Cooling / heating hysteresis value when used as auxiliary output cnE2 COOL COOLING / heating hysteresis value when used as auxiliary output cnE2 MODBUS COMMUNICATION PARAMETERS Min. Max. Unit Default Rdc. Slave device address selection	R.U.S.		R.L.S.			150
Rd.d. Alarm message display delay after alarm condition occurs 80.00 99.59 min:sec 0.00 8d.P. Alarm message display delay after energized 80.00 99.59 hr.min 0.10 8d.P. Alarm configuration (Rb5 : Absolute alarm, r EF : Relative alarm.) 18d.P = Rb5, Alarm values are RL.5 and Ru5. 18d.P = Rb5, Alarm values are RL.5 and Ru5. 18d.P = rEF, Alarm values are RL.5 = C.5E.RL.5., RU5. = C.5E.+RU5. 8d.D isable alarm output before alarm condition is lifted? 18d.P = resp. Alarm values are RL.5 = C.5ERU5. 8d.D isable alarm output before alarm condition is lifted? 18d.P = Alarm values are RL.5 = C.5E.+RU5. 8d.D isable alarm values are RL.5 = Alarm values are RL.5 = Alarm values are alarm values are alarm and alarm relay are disabled.) 18d.D isable alarm output before alarm condition is lifted? 18d.D isable alarm values are RL.5 = Alarm values are alarm and alarm relay are disabled.) 18d.D isable alarm output before alarm condition is lifted? 18d.D isable alarm values are RL.5 = Alarm values are alarm and alarm relay are disabled.) 18d.D isable alarm values are alarm condition is lifted? 18d.D isable alarm values are alarm condition is lifted? 18d.D isable alarm values are Al.5 = Alarm values are alarm and alarm relay are disabled.) 18d.D isable alarm values are Al.5 = Alarm values are alarm and alarm relay are disabled.) 18d.D isable alarm values are Al.5 = Alarm values are alarm and alarm relay are disabled.) 18d.D isable alarm values are Al.5 = Alarm values ar	R.L.5.	The alarm lower level setpoint may need to be reprogrammed after REP changes.	-60	R.U.S.	°C / °F	-60
RdP. Alarm message display delay after energized RdP. Alarm configuration (Rbb : Absolute alarm, rEF : Relative alarm.) RLP. If RLP = Rbb, Alarm values are RL5 and Rbb. If RLP = rEF, Alarm values are RL5 and Rbb. If RLP = rEF, Alarm values are RL5 = £.5£.RL5., RU5. = £.5£.+RU5. RoF. Disable alarm output before alarm condition is lifted? (no = Audible alarm is silenced only, YE5 = Audible alarm and alarm relay are disabled.) AUXILIARY OUTPUT (AUX) PARAMETERS Min. Max. Unit Default of relative with digital input, cnt2: works as 2nd control.) AUXILIARY output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, one cnt2 Rout with digital input, cnt2: works as 2nd control.) AUXILIARY output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, one cnt2 Rout with digital input, cnt2: works as 2nd control.) AUXILIARY output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, one cnt2 Rout with digital input, cnt2: works as 2nd control.) AUXILIARY output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, one cnt2 Rout with digital input, cnt2: works as 2nd control.) AUXILIARY output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, one cnt2 Rout with digital input, cnt2: works as 2nd control.) AUXILIARY output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, one cnt2 Rout Rout Rout Rout Rout Rout Rout Rout	R.H.Y	Alarm hysteresis	1	20		2
Alarm configuration ($Rbb : Absolute alarm, rEF : Relative alarm.$) REP. If $REP = Rbb : Alarm values are RL. 5 = C.5E - RL. 5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RL. 5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RL. 5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RL. 5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RL. 5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RL. 5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : RU5 : E.5E + RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 = C.5E - RU5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If REP = rEF : Alarm values are RL. 5 : If RE$	R.d.d.	Alarm message display delay after alarm condition occurs	00:00	99:59	min:sec	0:00
### REP If ### F = ### Rb 5, Alarm values are #### Rb 5 If ###	R.d.P.		00:00	99:59	hr:min	0: 10
AUXILIARY OUTPUT (AUX) PARAMETERS Auxiliary output type (non: cannot be used, nout; works as auxiliary output, ono fe; works as On-off function, of ic: Active with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, of ic: Active with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of ic: Active with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of icities with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of icities with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of icities with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of icities with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of icities with digital input, cotto; works as auxiliary output, ono fe; works as On-off function, one of icities works as On-off function, one of icities works as On-off funct	R.E.P.	If $REP = R_b S$, Alarm values are RLS and $R_{u}S$.	A65	rEF		ЯЬЬ
Auxiliary output type (non: cannot be used, Rout: works as auxiliary output, onoFF: works as On-off function, direction of its Active with digital input, cotted: works as 2nd control.) When the auxiliary output is used as cotted; probe selection (Pl: Thermostat probe, P2: Defrost probe, P3: Control is made by selecting auxiliary probe (Check the P3E parameter). When used as auxiliary output cotted; cooling-heating selection (HERL: Heating control, Loot: Cooling control is done) Also between the selection of	R.oF.	Disable alarm output before alarm condition is lifted? (no = Audible alarm is silenced only, $ye b$ = Audible alarm and alarm relay are disabled.)	no	¥£5		٥٥
### Cooling / heating hysteresis value when used as auxiliary output cnt2 MODBUS COMMUNICATION PARAMETERS When the auxiliary output, cnt2: works as 2nd control.) #### Cooling / Slave device address selection #### Cooling / Slave device address selection ###################################	AU	· ,	Min.	Max.	Unit	Default
### P3: Control is made by selecting auxiliary probe (Check the P3E parameter). ###################################	o.t P.	d ι c: Active with digital input, c n t c: works as 2nd control.)	non	cut2		Rout
db.E. (HERE: Heating control, LooL: Cooling control is done) Cooling / Heating control, LooL: Cooling control is done) -60 150 °C / °F 0 db.E. Setpoint when used as auxiliary output collection 1 20 2 MODBUS COMMUNICATION PARAMETERS Min. Max. Unit Default Rdr. Slave device address selection 1 247 1	o.P.5.	P3: Control is made by selecting auxiliary probe (Check the $P3E$ parameter).	PI	Р3		Р3
Cooling / heating hysteresis value when used as auxiliary output cnt2	o.E.Ł	(HERL: Heating control, LooL: Cooling control is done)				
MODBUS COMMUNICATION PARAMETERS Min. Max. Unit Default Rdr. Slave device address selection I 247 I	o.5 E.		-60	150	°C / °F	0
Rdr. Slave device address selection	o.HY		1	20		2
	_		Min.		Unit	
	bd.r.		oFF		bps	





ENDA ECOOL1036 DIGITAL COOLING CONTROLLER MODBUS PROTOCOL ADDRESS MAP 1.1 HOLDING REGISTERS Holding Register Addresses Data **Parameter** Read / Write **Content of Data** Tvpe Name Permission Decimal Hex D0000d 0x0000 Cooling set value (Can be adjusted between £.Ł.Ł value and C.U.L value.) E.5E. Readable/Writable word 0001d 0x0001 Upper limit for cooling set point (Can be adjusted between £.Ł.Ł value and 150 value.) Readable/Writable word C.U.L Lower limit for cooling set point (It can be adjusted between -60 value and £.u.Ł. value.) 0002d 0x0002 word C.L.L Readable/Writable Cooling hysteresis (It can be adjusted between 1 value and 20 value.) C.HY. 0003d 0x0003 word Readable/Writable Cooling offset value (It can be adjusted between -20 value and 20 value.) oF 5. 0004d 0x0004 word Readable/Writable Sensor to be displayed on the display (0 =P I, 1 =P2, 2 =P3, 3 =P I2) 0005d 0x0005 word PEH Readable/Writable Door digital input types $(0=non, 1=\ell P, 2=FRn, 3=\ell -F, 4=FR, 5=\ell FR)$ 0006d 0x0006 word d 1.E Readable/Writable 0007d 0x0007 Adjustable digital input types (0=non, 1=ER, 2=5R, 3=dF, 4=Rout)85.F Readable/Writable word Digital input delay (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) b8000 0x0008 Readable/Writable word d. 1.d. Delay of door digital input control 0009d 0x0009 word d. 1.E. Readable/Writable (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) Time to activate the compressor after energizing 0010d 0x000A C.P.d. word Readable/Writable (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) The time it takes for the compressor to restart after the stop 0011d 0x000B word E.5.d. Readable/Writable (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) Ten times of compressor output on probe failure E.P.n Readable/Writable 0012d 0x000C word (It can be adjusted between 00:00 hours 02:00 hours:minutes.) Compressor output off time in probe failure 0013d 0x000D word C.P.F Readable/Writable (It can be adjusted between 00:00 hours 02:00 hours:minutes.) Fast cooling time (can be adjusted between 00:00 hours 99:59 hours:minutes) C.F.L 0014d 0x000E word Readable/Writable 0015d 0x000F word Conditions where the defrost stop temperature is dependent $(0=nP, 1=P \ l, 2=P2, 3=P3)$ d.d.o Readable/Writable 0016d 0x0010 Defrost stop temperature set value (Can be adjusted between -60 value and 150 value.) d.5 E. Readable/Writable word 0017d 0x0011 Defrost time (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) d.E 1. Readable/Writable word The time between two successive defrosts 0018d 0x0012 d.d.E. Readable/Writable word (It can be adjusted between 00:00 hours 99:59 hours:minutes.) Defrost delay time after fast cooling d.dF 0019d 0x0013 Readable/Writable word (It can be adjusted between 00:00 hours 99:59 hours:minutes.) Delay for displaying actual temperature after defrosting ends 0020d 0x0014 word d.d.E Readable/Writable (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) Defrost start delay after energizing d.P.d. 0021d 0x0015Readable/Writable word (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) Drip (discharge) time (Can be adjusted between 00:00 minutes 99:59 minutes:seconds.) 0022d 0x0016 word d.E.d. Readable/Writable Fan control functions (0=nP, 1=P | 1, 2=P | 1-Q)0023d 0x0017 word F.E n Readable/Writable Fan stop temperature (It can be adjusted between -60 value and 150 value.) F.SE. 0024d 0x0018 word Readable/Writable word 0025d 0x0019 Fan hysteresis (It can be adjusted between 1 value and 20 value.) F.HY. Readable/Writable The time it takes for the fan to activate after energizing 0026d 0x001A F.P.J. Readable/Writable word (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) The time it takes for the fan to activate after defrosting 0027d 0x001B word F.d.d. Readable/Writable (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) 0028d 0x001C word Alarm upper level set value (Can be adjusted between R.L.5. value and 150 value.) R.U.S. Readable/Writable 0029d 0x001D Alarm lower level set value (Can be adjusted between -60 value and R.U.S. value.) word R.L.S. Readable/Writable 0030d 0x001E Alarm hysteresis (It can be adjusted between 1 value and 20 value.) RHY Readable/Writable Delay to show alarm message after alarm condition occurs 0031d 0x001F R.d.d. Readable/Writable word (It can be adjusted between 00:00 minutes 99:59 minutes:seconds.) Delay to show alarm message after energizing R.d.P. 0032d 0x0020 word Readable/Writable (It can be adjusted between 00:00 hours 99:59 hours:minutes.) o.Ł P Auxiliary output type selection (0=nan, 1=Raut, 2=anaF, 3=diZ, 4=cntZ) 0033d 0x0021 word Readable/Writable Auxiliary output probe type selection (0=P I, 1=P2, 2=P3) 0034d 0x0022 word o.P.S. Readable/Writable Auxiliary output setpoint(It can be adjusted between -60 value and 150 value.) 0035d 0x0023 word o.5E. Readable/Writable 0036d 0x0024 Auxiliary output hysteresis (It can be adjusted between 1 and 20 values.) o.HY Readable/Writable word Slave address selection (It can be adjusted between value 1 and value 247.) 0037d 0x0025 Adr. Readable/Writable word Modbus communication speed selection (It can be adjusted between value 0 and value 6.) $0 = \mathsf{OFF}\ 1 = 2.4\ \mathsf{bps},\ 2 = 4.8\ \mathsf{bps},\ 3 = 9.6\ \mathsf{bps},\ 4 = 19.2\ \mathsf{bps},5 = 38.4\ \mathsf{bps},$ 0038d 0x0026 bdr. Readable/Writable word 6 = 56 bps Display configuration during defrost (0 = rE, 1 = Lc 2 = dEFReadable/Writable 0039d 0x0027 d.d.C. word

Time-related parameters (those of the "min:sec" type and "hr:min" type) are defined as hexadecimal.

For example:

- 1- The hexadecimal value of a parameter set to 🗓 🗄 I': 🖁 in min:sec is 119. The decimal equivalent of 119 is 281. In Modbus, this time is read as "281".
- 2- The hexadecimal value of a parameter set as 02:54 in hr:min is 254. The decimal equivalent of 254 is 596. In Modbus, this time is read as "596".



Among the Holding and Input Register parameters, those of integer type are defined as signed integers and these parameters are with the decimal part. (A parameter with a value of "14.0" will be read as "140")

-			,		
	Register resses Hex	Data Type	Content of Data	Parameter Name	Read / Write Permission
0000d	0x0000	word	Measured thermostat probe temperature value (°C / °F)	-	Read Only
0000d 0001d	0x0000	word	Measured defrost probe temperature value (°C / °F)	-	Read Only
0001d	0x0001	word	Measured auxiliary probe temperature (°C / °F)	-	Read Only
0003d	0x0003	word	The lowest measured temperature (shown on the display) value (°C / °F)	-	Read Only
0004d	0x0004	word	The highest measured temperature (shown on the display) value (°C / °F)	-	Read Only
nput Reg	ister parame	eters are de	efined as signed integers and these parameters are with decimal point. (A parameter with a value	ue of "14.0" will be	e read as "140").
.3 DIS	CRATE I	NPUTS			
	e Inputs esses Hex	Data Type	Content of Data	Parameter Name	Read / Write Permission
0000d	0x0000	bit	Compressor relay output status (0=OFF; 1=ON)		Read Only
0001d	0x0001	bit	Defrost relay output status (0=OFF; 1=ON)		Read Only
0002d	0x0002	bit	Fan relay output status (0=OFF; 1=ON)		Read Only
0003d	0x0003	bit	Lighting relay output status (0=OFF; 1=ON)		Read Only
0004d	0x0004	bit	Alarm relay output status (0=OFF; 1=ON)		Read Only
0005d	0x0005	bit	AUX relay output status (0=OFF; 1=ON)		Read Only
1.4 COI	ILS				
Co Adre Decimal	oil esses Hex	Data Type	Content of Data	Parameter Name	Read / Write Permission
00d	0x00	Bit	Temperature unit ($0 = {}^{O}\mathcal{E}$, $1 = {}^{O}\mathcal{F}$)	Unt	Readable/Writable
01d	0x01	Bit	Decimal digit display ($0 = n \mathbf{o}$, $1 = \mathcal{Y} \mathcal{E} 5$)	d.PE	Readable/Writable
02d	0x02	Bit	Auxiliary probe use ($0 = \alpha a$, $1 = 9E$)	P 3.E	Readable/Writable
03d	0x03	Bit	Door digital input polarization ($0 = c \mathbf{L}, 1 = \sigma \mathbf{P}$)	d I.P	Readable/Writable
04d	0x04	Bit	Adjustable digital input polarization ($0 = cL, 1 = oP$)	d2.P	Readable/Writabl
05d	0x05	Bit	d. ι.Ε control activity parameter (0 = no, 1 = 9Ε5)	dc.Ł	Readable/Writabl
06d	0x06	Bit	Smart defrost selection (0 = $n a$, 1 = $y \epsilon b$)	d.c 5.	Readable/Writabl
07d	0x07	Bit	Defrost type selection ($0 = EL\mathcal{L}, 1 = \mathcal{LRS}$)	d.E.P	Readable/Writable
08d	0x08	Bit	Starting state of defrost with energy ($0 = na$, $1 = 465$)	d.P.r.	Readable/Writable
09d	0x09	Bit	The case when the fan stops with the compressor ($0 = n \mathbf{o}$, $1 = \mathcal{Y} \mathcal{E} \mathbf{b}$)	F.E.S	Readable/Writabl
10d	0x0A	Bit	Fan stop during defrost ($0 = no$, $1 = \mathcal{YE}b$)	F.d.5.	Readable/Writabl
11d	0x0B	Bit	Alarm configuration ($0 = Rb5$ Standalone alarm, $1 = r\mathbf{E}F$ Relative alarm)	R.Ł P	Readable/Writabl
12d	0x0C	Bit	Turning off the alarm output while the alarm is active ($0 = no, 1 = 9E5$)	R.oF.	Readable/Writabl
13d	0x0D	Bit	AUX output control type (heating-cooling) (0 = <i>HERL</i> , 1 = <i>LooL</i>)	o.E.E.	Readable/Writabl
14d	0x0E	Bit	Closing control outputs (0 = No, 1 = Yes)		Readable/Writabl
15d	0x0F	Bit	Fast cooling (0 = No, 1 = Yes)		Readable/Writabl
16d	0x10	Bit	Starting a manual defrost (0 = No, 1 = Yes)		Readable/Writable
17d	0x11	Bit	Activating the lighting (0 = No, 1 = Yes)		Readable/Writabl
18d	0x12	Bit	AUX output (0 = Off, 1 = On)		Readable/Writable
19d	0x13	Bit	Locking the keys (0 = No, 1 = Yes)		Readable/Writabl
		Bit	Alarm output and sound status (0 = No, 1 = Yes)		Readable/Writabl



0x15

Bit

21d



Readable/Writable

6.5.E

Should the buzzer be activated in alarm situations? (0 = No, 1 = Yes)





EndaLink is a mobile application that provides fast and secure data sharing between NFC supported ENDA devices and mobile devices.

↑↑ To communicate with an NFC supported ENDA device, your mobile device must have NFC support.

You can scan the QR codes below to access our EndaLink application on Google Play and the App Store.

Google Play



App Store



Resetting the NFC Password via EndaLink

When an NFC password reset command is sent via EndaLink, if the device's display shows the message "PLL" and an audible alert is given at the same time, it means that the NFC password has been successfully reset. If the "PLL" message is not displayed, the reset operation has failed.



