Temperature and Humidity controller for Seasoning, 2.8" display with touch keys





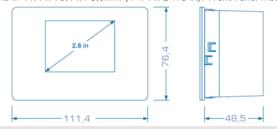


ENGLISH

- Temperature and humidity controller
- Suitable for Humidity and temperature EVCO EVHTP500 probe;
- 12Vac/dc power supply
- Option Real time clock RTC and memory for data logging and BLE for communication with APP EVconnect (Android).
- Door switch or configurable digital input
- 6 configurable relay outputs, 16 or 30 A res. @ 250 VAC compressor relay
- Alarm Buzzer
 - TTL communication port for optional RS485 and RTC external interface or EVLINK / BLE (Cap. First Handling).

DIMENSION AND INSTALLING

Dimensions in 11,4 x 76,4 x4 8,5mm (4 1/4 x 2 7/8 in); Front Panel mounting,

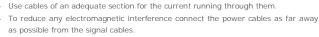


INSTALLATION PRECAUTIONS

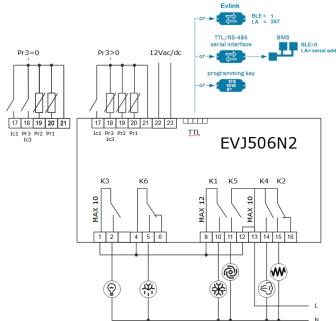
- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in)
- Ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFI-CATIONS section.
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks.
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them

3. ELECTRICAL CONNECTION

BF AWARE



Use TVHTP500 probe, the unit does no support 4..20mA o 0.10V humidity probes.

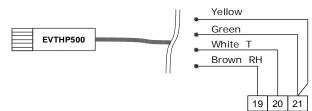


Default values

- K1 = 30A or 16= compressor
- k2 = 8A = Heating
- K3 = 16A = LightK4 = 8A= Humidify
- K5 = 5A= Evaporator Fan K6 = 8A= Defrost
- Humidity EVCO probe EVHTP500 Pr2=
- - Evaporator / Configurable / Digital input
 - Door switch or configurable

EVCO transformer model ECTSFB001 230V/12vac 5,6VA (non included)

EVHTP500 PROBE CONNECTION



PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque. Moving the device from cold to warm places, there may be internal condens-
- ing. Wait about an hour before switching on the power. Make sure that the supply voltage, electrical frequency and power are within
- the set limits. See the section TECHNICAL SPECIFICATIONS.
- Disconnect the power supply before doing any type of maintenance. Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.

- Install following the instructions given in the section DIMENSION AND IN-STALLING
- Power up the device as shown in the section $\it ELECTRICAL$ CONNECTION.
- Configure the device output with relay parameters uc1..uc6, input param eters Pr2 Pr3 e ic1 and uc3;
- Then check if the remaining settings are appropriate:
- Disconnect the device from the mains supply.
- Make the electrical connection as shown in the section ELECTRICAL CON-NECTION without powering up the device.
- To connect the unit to an RS-485 network connect the interface EVIF22TSX or EVIF23TSX (With RTC). A network communication is alternative to local transmission and data recording, set BLE=0.
- Power up the device.

1.55

Device ON/OFF



Touch the ON-OFF key for 2", the device alternatively turns On or Off.

When the device is off, the display shows the off icon for some seconds. Then it turns to black for energy

5. USER INTERFACE AND MAIN KEY FUNCTIONS



LED	ON	OFF	BLINKING
*	Cooling request De-humidify request	compressor Off	- Protection delay time
*	Defrost	-	- Defrost delay time - Dripping
@	Evaporator fans on	Evaporator fan off	Evaporator fan delay time
@ () ()	Humidify request Humidify relay		
Ø	De-Humidify request de-Humidify relay		Delay when de-humidify with compressor.
₩	Heating request Heating relay De-Humidify request Compressor+heating		
НАССР	HACCP Alarm loggged	-	New alarm logged
②	Energy saving	-	-
×	Maintenance	-	Collegamento remoto
C/F/ %	Unit of measurement	-	
AUX	Auxiliary function Auxiliary relay	Auxiliary not active	
҈	Light on by key	Light off	Light on by door open
\triangle			Active alarm
€	Probe value above the or under the sepoint.		
0/0	Keyboard status		
	Open Door	Door closed	
5	Running Cycle	No cycle running	Cycle in stand-by, another function is running.
46			

To change the unit between degrees C and F it is required to re-program the temperature parameters

KEY COMMANDS

Key command functions can be direct or delayed:

LED	Direct	Delayed: press 2 seconds
		To access the MENU functions
		- Language
MENU		- Parameters
		- Probe Value
U	Backward from a Menu	Turns On or Off instantaneously the unit regulation, display turns to black after a minute.
V	Reduce a value or move down the prompt in a list of elements.	
Λ _{AUX}	Increase a value or move up the prompt in a list of elements. To access the AUX functions	
<u></u>	Turn On or Off manually the light output relay.	
SET	To change or confirm the setpoint, Select or confirm the element or a value.	
(A)	To access the AUX functions Turn On or Off manually the light output relay. To change or confirm the setpoint, Select or confirm the element or a	

LOCK LINEOCK THE KEYBOARD

After a minute without operating the keyboard is automatically locked $oldsymbol{\widehat{oldsymbol{1}}}$

Push any keys for two seconds to unlock the keyboard

7. AUX FUNCTIONS

User auxiliary manual commands are available touching the AUX key









CONFIRM: Select an item with up and down keys, press SET to confirm or 0 to

Manual Defrost Set to Confirm



Some functions can be disabled by repeating the same procedure (Manual Energy Saving). Other functions will proceed following their process until the end of the function (manual defrost).

Some functions may not be visible if the unit status is not running or the model does not support the function itself

Manual defrost: It executes a defrost if the evaporator probe is present "Pr3=5" and the evaporator condition allows it. If no evaporator probe is configured the defrost is time based.

Over temp: it changes the SET temperature to "SET+/-r6" value for the time "r7". With $\dot{r7}=0$ the function is disabled. A defrost can be postponed with d4.

Extra rH: it changes the humidity SET2 into "h4" value for the time set in "h5". With "h5=0" the function is disabled Energy Saving: Enabling the energy saving function changes the SET1 into

"SET1 + r4 differential". Repeat the operation to disable the function. Aux: available if the auxiliary output is configured as manual control "u6"

LIGHT COMMAND KEY

Touch once the light command to turn ON or OFF the light.

The light output turns on by opening the door if ic1=7/8/9.

8. CHANGING THE SETPOINTS

It is possible to change the temperature and humidity setpoint values as follow:

Push SET key, the temperature setpoint appears with the available minimum and maximum range.





- - The humidity SET2 appears: Push up or down arrows to change the value and then **SET** to confirm

INTERMEDIATE EXIT: wait 5 seconds or push 0 to exit and abort the changed value on the display



All the alarm events are displayed by rotation of the alarm messages on the bottom line of the display

SILENCING TE BUZZER Alarm sounding can be reset touching MENU/SET



Faulty Sensor alarms: a faulty probe or wrong probe connection is showed by icon and an alarm message is available on the bottom line.



RTC alarm and Power failure

If enabled with "Hr0=1" the RTC alarm appears at the power on after a minute.

The black out alarm is recorded when longer than > A10.

LIST OF THE ACTIVE ALARMS

All the active alarms are also listed into MENU SERVICE ALARMS

LIST OF HACCP ALARMS LOG

All the Haccp alarm \triangle are listed into the MENU_SERVICE_HACCP log RESET To reset the blinking alarm icon enter the ${\bf MENU_SERVICE} : {\bf Reset\ data}$

10. MENU - CONFIGURATION



key for 2 seconds to enter the configuration



Language Select the interface language. Service To show configuration Parameters, Alarms, Alarm Reset and Statistics.

Real time Clock To set the Clock if enabled. Available only if the clock option is availabe.

To select the operative language. Basic languages I-GB other depending on version updates (N.A.).

MENU_SERVICE to configure the I/O, reading values and maintenance.



SERVICE MENU ITEMS

Parameters Internal value

Reset data memory

To access and configure parameters

To show I/O values

To show the list of active alarms Alarm Reset (code 149)

Re-load original parameter map. BE AWARE (*) **Parameters Restore**

Show the HACCP Log from last Alarm Reset.

(*) custom configuration can be different from default values. By reloading the original values, the loads connected to relay outputs can be damaged or wrongly perform if not corresponding.

REAL TIME CLOCK

Real time clock functions are available if provided on board or connected with external interfaces EVIF23TSX or EVIF25TBX (Evlink), Enter this menu to set the clock. Function related to Clock



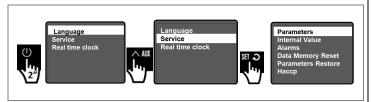
Enter the Clock menu and: push SET and change year value YY; push SET and change month value MM; push SET and change day value DD; push SET and change hour value; push SET and change minutes value; EXIT the menu with

Regulation functions available with the clock function

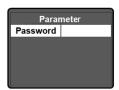
- daily defrost: Hd1..Hd6.
- daily Energy Saving: H01..H02

11. PARAMETERS AND PASSWORDS

ENTER: Push MENU key for 2 seconds



PASSWORD



Enter the password using directly the up or down arrows, the pass background color turns to green, push SET to confirm:

password value corresponding to "PS1=1" to enter

password value corresponding to "PAS=-19" to enter all the parameters

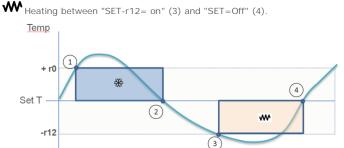
12. REGULATION

Temperature regulation

The temperature setpoint can be set between the limits min "r1" and max "r2" The temperature is regulated with the following outputs:



Cooling between "SET+r0= on" (1) and "SET=off" (2).

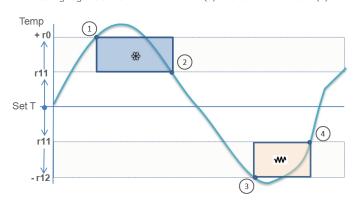


TEMPERATURE REGULATION WITH NEUTRAL ZONE

Available by setting "r11<>0" the value is inserted between the SET and the dif ferential:



Cooling regulation "SET+r11+r0= on" (1) and "SET+r11=off" (2). Heating regulation "SET-r11-r12" = on (3) and "SET-r11" = OFF (2).



if "r11<0" the neutral zone is available only for heating side 3-4.

TEMPERATURE REGULATION and DE-HUMIDIEY WITH COMPRESSOR

By setting "rd4=1" the de-humidify function with compressor is enabled, while setting "rd4=2" the same function is performed by turning on also the Heating output on with the Compressor.

TEMPERATURE PRIORITY OVER DE-HUMIDIFY with compressor if "rd4>0" The "r14" parameter can be configured as the following priority:

0 = Temperature and humidity are independent and follow their requests 1 = Heat: if the temperature drifts up, the de-humidify is suspended.

- 2 = Heat-Cool: if the temperature drifts up or down, the de-humidify is suspended.
- 3 = Cool: if the temperature drifts-down, the de-humidify is suspended.

HEATING MODULATION

The heating output can be modulated with "r13" by setting a duty cycle interval between 10 and 60". The "r13=60" value (default) means that the heating relay is always on when the request of heating is active

Be aware that increasing the switching frequency of the relay may introduce long term contact duration concerning.

For safety reasons the fan stop temperature "F1" must be set very high to avoid stopping the fan during the heating.

OPEN DOOR

 \odot

(2)

€3

Set rH-

-rh0

The regulation can be suspended depending on "ic1" digital input function. Regulation can be restarted by forcing the timer setting "i3"

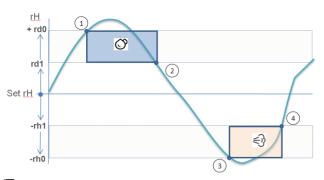
Humidity regulation SEt2

The Humidity is basically controlled by the following algorithms:

de-humidify is controlled between "SET2+rd0=On" (1) and "SET2=Off"

humidify is controlled between "SET2-rh0=On" (3) and "SET2=Off" (4). + rd0

A NEUTRAL ZONE is available by setting "rh1" for the humidify process and "rd1" for the de-humidify process



OPEN DOOR regulation is suspended depending on "ic1" digital input func tion. Cooling regulation can be restarted by forcing the time parameter

ODE-HUMIDIFY WITH COMPRESSOR (defult rd4=1)

Setting "rd4=0" the function is disabled, while setting the following values: "rd4=1" to use the compressor in de-humidify function.

"rd4=2" to use the compressor+heating in de-humidify function

13. EVAPORATING FAN



Evaporating fan follows the "F0" parameter. default=1

FAN STATUS

Parameter "FO" allows the following behaviors:

0= "Fans on with regulation on" (intended as compressor, heating, humidify, de umidify). F0=0 also allows to control fan cycles (*);

- 1 = Always ON, (default),
- 2= ON with regulation ON,
- 3= With temperature threshold F1, if the evaporator probe is enabled "Pr3=5" 4= ON with regulation On and threshold F1, if the evaporator probe is enabled

It is advised to use "F0= 3 or 4" values only without heating elements. For safety reason the fan stop temperature "F1" must be wisely set to avoid stopping the fan during the heating function.

OTHER SETTINGS

FAN TEMPERATURE THRESHOLD "F1" to lock for high temperature if "Pr3=5" Working with heating elements F1 must be set at high values to avoid turning

DEFROST with "F2" fan mode to determine the fan status. **DRIPPING** with "F3" to determine the fan stop time after the defrost.

The uc()=14 as "evaporator fan 2" function it is not available on this model.

14. FAN CYCLES F0=0 (*)

By using "F0=0" the evaporators fan can follows on-off cycles depending on the active function:

1) when there are **no temperature or humidity requests**: F11_on e F12_off 2) when there is a de-humidity request with compressor and the De-humidify

3) when there is a **humidity request** and there is no Humidify relay configured: rh2_On time - rh3_Off time

DEFAULT VALUES: the following values allows to operate the normal function, Fan_on values must be >0 and Fan_Off values must be equal to 0: "F11, rd2 and rh2 = 60"

"F12, rd3 and rh3 = 0"

when there is a regulation request the fans turns or remains on.

TO ACTIVATE A CYCLE: By setting "F12, rd3 and rh3>0" the fan cycling function is activated when requested.



TO STOP THE FUN DURING A FUNCTION

Setting "F11 =0, rd2 =0 or rh2 =0" the fan output is disabled for the duration of the requested function. The function is not appropriate with heating elements

BE AWARE that the increasing number of the fan relay switching may cause a long term relay contact concern. It is advised to balance the load (heatingcooling) and the switching timing to preserve the relay.

15. OTHER REGULATION

COMPRESSOR PROTECTION (default value: C2=3 minutes)

oxtless Power on: the first compressor start can be delayed with "CO" minutes. PROTECTION: during normal regulation "C2" keeps the compressor off for the time set in minutes, while "C3" keeps the compressor on for a minimum time in seconds.

"C3" minimum compressor on time function overrides the thermoregulation even outside the temperature or humidity band until it is expired.

PROBE SAFETY: if a faulty or wrong probe connection events happen, the dis---.-". The compressor follows the "C4" (off) & "C5" (on) time in

CONDENSING and CONDENSING FAN (default: to be configured) Condensing fan follow the compressor on status if no condensing probe is con-

figured. By enabling the condensing probe Pr3=1 the following controls are available:

"Fc1+Fc2" Temperature threshold to turn on the condenser fan;

"Fc1" condenser fan off temperature threshold:

"Fc3" condenser fan off time after compressor off;

CONDENSER ALARM

"C6" threshold for high condensing when dangerous for the compressor;

threshold for high condensing alarm that stop the compressor after "C8" time delay in minutes. A manual reset of the power supply is requested to restart the controls

DEFROST

The defrost control is performed after the "d0" interval if>0 and can be selected among the following mode "d1": 0=electric heater, 1= hot gas, 2=stop

TEMPERATURE THRESHOLD is determined by "d2" and is available only if the evaporator probe is enabled "Pr3=5"

MAXIMUM DURATION determined by the time interval "d3" in minutes. **DEFROST AT POWER ON** determined by the parameter "d4": 0 = no , 1 =

post overcooling, 2=power-on & post-overcooling. DEFROST DELAY: "d5" in minutes following the "d4" selection.

DISPLAY LOCKED in DEFROST using "d11": 0=not locked, 1= locked. COMPRESSOR STATUS PRE DEFROST time to keep the compressor on before hot gas defrost: 0=no enabled, d15>0 enabled.

RTC DEFROST When the clock function is available, the user can set 6 daily defrosts that start at "hd1..hd6 > 0" parameters. The function is independent from any other timer based functions of the unit. Te defrost reset the "d0"



DEFROST OUTPUT AS HEATER / DE-HUMIDIFY FUNCTION Setting "rd5=1" it is possible to use the defrost output also as alternative heat-

ing element the heating relay if not available.

AUXILIARY RELAY (default value: to be configured)

When configured with "uc ()=15" the auxiliary relay works as follow:

- on-off relay based on the cabinet probe reading if no auxiliary probe configured:
- on-off relay based on the the auxiliary probe reading if Pr3=4; Manual On-Off via AUX key.

After setting the output relay, configure the regulation as follow:

"u6" Heating regulation (0), cooling regulation (1), manual via AUX key (2) "u7" Setpoint temperature to turn off the output if "u6=0 or 1"

"u8" Temperature differential of "u7" to turn on the output if "u6=0 or 1".

For probe error the relay is open.

AUX MANUAL FUNCTION

By setting "u6=2" the auxiliary relay can be turned on or off entering the \boldsymbol{AUX} menu and selecting AUX function.

16. DIGITAL INPUT 1 CONFIGURATION

The digital input 1 can be configured in "ic1" parameter, default door switch (7):

0= Disabled.

1= Energy Saving;

2= Alarm Multifunction: Only signaling

3= Reserved 4= Remote Onoff;

8= Door open 2:

9= Door open 3:

Turns Off and On the unit. "i8" events, interval "i7". if "i8"=0 auto reset 5= Thermal switch;

6= Reserved: 7= Door open 1: Compressor and Fan off, Light on;

Input polarity is determined by "iP1": 0= active function with closed contact: 1= active function with open contact

Light on;

Compressor off, Fan and Light on;

OPEN DOOR (default value: ic1=7)

Regulation is suspended while the compressor can follow "i3" settings: "i3=-1" the compressor follows its regulation;

"i3=0" compressor goes off;

"i3>0" the compressor goes off, it will restart after this delay in minutes

17. CONFIGURATION INPUT 3

By selecting the parameter "Pr3" the following functions are available

(condenser fan and alarms) 1 = Condenser probe (only display) 2 = Core probe 3 = External air probe (only display) (regulation u6,u7,u8) 4 = Auxiliary probe 5= Defrost probe 2 (defrost control)

PRESSURE SWITCH CONFIGURATION

By selecting the parameter "Pr3=0" it is possible to configure also the function of the digital input via "iC3" parameter: 0 disabled e 1=pressure switch (see

18. RELAY OUTPUT CONFIGURATION



EXPERT USER ONLY

Relay functions are configurable through uc1..6 parameters that corresponds to the K1..K6 outputs. The default configuration: 0 = Unused

1 = Umidify (rh)

2 = De-Umidify (drh)(the function is performed by the compressor)

3 = Alarm4 = Compressor 5 = HeatingK2

6 = Condenser fan 7 = Device status on or off,

8 = Air change9 = Light

КЗ 10 = Compressor 2

11 = Evaporator fan

12 = Defrost

13 = Reserved

14 = Evaporator fan 2

(Low speed fan) 15 = AUX(Auxiliary u6,7,8)

The reloading procedure of a default map is available only for the default configuration in "MENU_SERVICE_ Parameters Restore" and it must be done disconnecting the loads. Be aware to accurately verify the functions related to the relay outputs, configuration errors may activate unwanted loads.

19. ALARMS

Alarms are displayed on the bottom line of the display

PROBE FAILURE: typical problems: open or short circuited sensor, wrong sensor type or bad connection.

"Probe 1 failure" Regulation probe failure, heating regulation is suspended,

cooling regulation follows the on-off cycles C4-C5 in minutes. "Probe 2 failure" Humidity probe failure, humidity and de-humidity regulations are suspended. A time delay to override it can be set using "AH7"

"Probe 3 failure" 3d probe failure. If working as evaporator defrost is performed by time "d3", if working as condenser probe the condenser fan follows the compressor, if working as auxiliary the AUX relay turns off.

TEMPERATURE ALARMS

"LOW TEMPERATURE" setting the "A1" threshold.

To configure the alarm: "A2" 0= disabled, 1=relative to SET, 3=absolute value.

"HIGH TEMPERATURE" setting the "A4" threshold.

To configure the alarm: "A5" 0= disabled, 1=relative to SET, 3=absolute value.

TEMPERATURE ALARM DELAY

After a power-on with "A6" minutes.

During normal regulation with A7 in minutes.

After a defrost with "A8" in minutes

After closing the door with "A9" in minutes.

HUMIDITY ALARMS

"LOW HUMIDITY ALARM" setting the AH1 relative to SET2. "HIGH HUMIDIY ALARM" setting the AH1 relative to SET2.

Humidity alarm delay "AH7" in minutes and after a power-on with "A6" minutes.

POWER FAILURE -

It is signaled after a power failure longer than "A10" in minutes.

RTC CLOCK FAILURE

It appears If the clock is enabled "Hr0=1" and the external modules EVIF23TSX or EVLINK are removed or in case of low battery or battery failure.

DOOR OPEN ALARM

It occurs when the digital input "ic1 = 7/8/9" is active after the "i2" delay in minutes. With "iP1=0" active when contact closed. "iP1=1" active when contact is open. Setting "i2=-1" the alarm is disabled, and "i2=0" the alarm starts when the door is open.

MULTIFUNCTION ALARM

It occurs when the digital input is set as "iC1=2" is active. With "iP1=0" active when contact closed, "iP1=1" active when contact is open.

Regulation is not modified.

THERMAL SWITCH 1 ALARM

It occurs when the digital input "iC1=5" is active. With "iP1=0" active when contact closed, "iP1=1" active when contact is open.

The regulation is suspended and restarts when the alarm disappears. Starting from the very first event, the unit counts the alarm events "i8" during the "i7" interval. When the number of events is reached the alarm must be manually reset. Setting "i8=0 the alarm is always automatic, with "i8=1" the alarm is al-

PRESSURE SWITCH ALARM

IF "Ip3=0", it occurs when the digital input is set as "iC3=1" is active. With "iP3=0" active when contact closed, "iP1=3" active when contact is open.

The regulation is suspended and restarts when the alarm disappears. Starting from the very first event, the unit counts the number of alarm events "i8" during the "i6" interval. When the number of events is reached the alarm must be manually reset. Setting "i8=0 the alarm is always automatic, with "i8=1" the alarm is always manual. If the alarm duration is equal to "i6" the alarm counter does not increase.

CONDENSER OVERHEATED

Setting the condenser probe "Pr3=1" and the temperature threshold "C6" the unit shows the condenser alarm as soon as the temperature rises above "C6"

COMPRESSOR BLOCKED for high condensing

Setting the condenser probe "Pr3=1" and the temperature threshold "C7" the unit shows the condenser alarm when the temperature rises above "C7" for the time "C8". Compressor regulation is locked. Manual reset is necessary by turning off and the on the unit.

20. EVCONNECT EVLINK and

Communication functions are in mutual exclusion: the presence of embedded or remote EVLINK (eg EVIF25TBX) prevents the user to connect a RS485 serial interface EVIF22TSX o EVIF23TSX and vice versa. Parameters involved:

HrO enables the clock function 0=no 1=Yes. Connecting an EVLINK "HrO" is automatically enabled and the "rtc" alarm appears. If the EVLINK is removed or fails the RTC alarm appears.

Inserting a EVIF23TSX the HrO parameter must be manually set.

BLE= enable EVLINK. BLE=1 and LA=247 the EVLINK communication is enabled while modbus communication is disabled. BLE=0 the serial interfaces EVIF22/23TSX for RS485 and MODBUS communication can operate.

PA1 = 824 service password access from EVCONNECT APP.

PA2= 642 user password access from EVCONNECT APP. It allows the use of EVCONNECT APP in user mode, the parameter change via APP is not available.

LOCAL PARAMETER PASSWORD

To access the parameters with local password via keyboard: PAS=-19 service password for all the parameters;

PS1= 1 password to access level 1 parameter

22 TECHNICAL DATA

22. ILCIINICAL DAIA	
Purpose of the control device:	function controller.
Construction of the controller device:	build-in electronic device.
Case:	Plastic Self extinguish or Open frame.

Category of heat and fire resistance: Dimensions 111,4 x 76,4 x 48,0 mm (4 3/8 x 3 x 1 15/16in) panel with elastic mounting flaps or backpanel Mounting methods: with double stick tape Front Panel degree of protection: IP65 Connections screw connector for wires up Removable terminals by re TTL Picoblade auest 2.5 mm² Maximum lenght for connection cable power supply: 10 m (32,8 ft) analog inputs: 10 m (32,8 ft) digita inputs: 10 m (32,8 ft) digital outputs: 10 m (32,8 ft) Operating temperature 5 .. 55 °C (32..131 °F). -10 .. 70 °C (-13 .. 158 °F Storage temperature Operating humidity: from 10 to 90 % not condensing. Pollution status of the control device: Conformity: RoHS 2011/65/CE WEEE 2012/19/EU n. 1907/2006 EN 60730-1 IEC 60730-1 12vac/dc (±10%), 50/60Hz(±3 Hz), 10 VA max None Earthing methos for the control device rated impulse-withstand voltage 4 KV. Over-voltage category: 111 Sftware class structure Real time clock: ncorporated lithium battery Clock drift: ≤ 60 s/month a 25 °C (77 °F). Clock battery autonomy in blackout: > 6 months 25 °C (77 °F). Clock battery charging time 24 h (supplied from the device). 2 for PTC or NTC sensor (cabinet and auxiliary Analogue inputs: humidity Evco probe EVHTP500 configurable Digital inputs Other inputs: configurable auxiliary probe or pressure switch 6 configurable electromechanical relays: Digital output: (K1) Compressor: SPST 30 A res. @ 250 VAC (K2) Heating: SPDT 8 A res. @ 250 VAC (K3) Light: SPST 16A res. @ 250 VAC SPST 8 A res. @ 250 VAC (K4) Huidify: SPST 5 A res. @ 250 VAC; (K5) Evaporator fan SPDT 8 A res. @ 250 VAC

23. PARAMETERS KEY

Type1 or type 2 action

Communication port:

Display

Buzzer:

Using the EVJKEY key follow these steps: Power Supply is off;

TURN THE POWER ON

DATA TRANSFER OK "error led" is on

Additiona fetures for Type1 or type 2 action

UPLOAD from REGULATOR to EVJKEY: insert the cable to TTL and the EVJKEY dip-switches 1-2-3 set to OFF

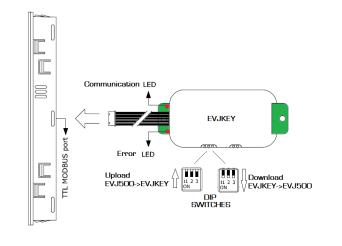
DOWNLOAD from $\ensuremath{\mathsf{EVJKEY}}$ to $\ensuremath{\mathsf{REGULATOR}}$: insert the cable to TTL and the EVJKEY dip-switches 1-2-3 set to ON.

TFT 2,8 inches, 16 colors, 320 x 240 pixel.

MODBUS converter (alternative to BLE)

TTL picoblade for parameter key or RS485

for some seconds the two leds blink together, during the data transfer the "communication led" is blinking: DATA TRANSFER OK "communication led" is on.



24. PARAMETERS

LEVEL 1 PARAMETERS password PS1=1

CA1	0.0	Probe 1 calibration
CA2	0.0	Probe 2 calibration
r0	2.0	Heating differential
r12	-2.0	Cooling differential
rd0	3.0	De-humidify differential
rh0	-3.0	Humidify differential
d0	0 hours	defrost interval
d2	8	End defrost temperature
d3	30 min	Defrost duration
PLi	1	Light key configuration in stand-by

SET	∩=	N.	PAR.	DEF.	SETPOINT	MIN MAX. (°c)
N	® =		SET	1	+	
GA1		N.				
3		-		1		
PO		\vdash		+	-	
5		H		+	•	
1		5	P1	1	Enable °C Decimal Point	-
7	Q	6	P2	0		
8		7	Pr3	5	Probe 3 configuration	0 = Digital input 1 = Condenser Probe 2 = Core Probe 3 = External Air 4 = Auxiliary Probe
9		8	P5	1		0 = None 1 = Input 1
11 P9 S Crease/decrease a digit. 0.255 1/10 doc s 0.255 1/		9	P6	2	side).	4 = Setpoint 1 (T)
11 P9 5 Chisplay 2 Refresh Time to In. 0.255 1/10 dec s 1.25		10	P8	5		0255 1/10 dec s
N. PAR. DEF. TEMPERATURE MINMAX.		11	DO	-		0. 3FE 1/10 doo o
12					crease/decrease a digit.	
SET_HIT +0 If neutral zene) 13		N.	PAR.	DEF.		MIN MAX.
13		12	r0	2	(SET+r0)	0,115 °C/F
15		\vdash		+	Minimum Setpoint Temp	
15						
17		15	r4	0	Saving	099 °C/F
17 r6 0 0 perature sepoint "SET +/- r6" -40.+99 °C/F in Over Temp 18 r7		16	r5	0	during Over Temp	0=no 1 =Yes
18		17	r6	0	perature sepoint "SET +/- r6"	-40+99 °C/F
		18	r7	0	 	0240 min
20					Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is ac-	
21 F13 80 a laways on, 0 = Off. 0 = Disabled 1 = I = Heating (if 7" rise 1 = I = I = I = I = I = I = Heating (if 7" rise 1 = I = I = I = I = I = I = I = I = I =		20	r12	-2	Setpoint Heating Differential (SET-r12)	-250,1 ° C/F
22		21	r13	60		
23		22	r14	2	if >0 the unit stops de- humidify (with compressor) to adjust temperature first.	1 = Heating (if T° rises)
h1 10 Minimum setpoint 2 0h2 %rH	. •		PAR.	DEF.	HUMIDITY	MIN MAX.
	*	23	h1	10	Minimum setpoint 2	0h2 %rH
25		24	h2	95	Maximum setpoint 2	h1100 %rH
N. PAR. DEF. DE-HUMIDIFY REGULATION DE-HUMIDIFY REGULATION DE-HUMIDIFY REGULATION DE-HUMIDIFY REGULATION DE-HUMIDIFY		25	h4	0	using AUX key manual func- tion. The value of "h4" re- place SET2 for the time set in	0100 %rH
N. PAR. DEF. REGULATION MIN MAX.						0240 min
27		26	h5	О	function not enabled.	
28					DE-HUMI DI FY	MIN MAX.
28		N.	PAR.	DEF.	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0)	
O		N .	PAR.	DEF.	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone)	125 %rH
31 rd4 1 De-Humidify with Compressor or compressor and heater. 31 rd4 1 De-Humidify with Compressor or compressor and heater. 32 rd5 0 Heating and de-Humidify functions executed with Defrost output if no heating output if a valiable. N. PAR. DEF. HUMIDIFY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) 34 rh1 0 Humidify Neutral Zone 010 % %rH Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output normal. N. PAR. DEF. COMPRESSOR MIN MAX. N. PAR. DEF. COMPRESSOR MIN MAX. N. PAR. DEF. COMPRESSOR MIN MAX. O Compressor ON Delay After Power-on 2.240 min 0240 min 1mme Compressor ON Minimum 1mme Compressor ON Minimum 1mme Compressor ON Minimum 0 240 min 0 240 mi		N . 27	PAR.	DEF. 3	DE-HUMI DI FY REGULATI ON De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone	125 %rH 010 %rH
Pendent. Peating and de-Humidify Fleating and de-Humidify Fleating and de-Humidify Fleating and de-Humidify Fleating and de-Humidify Peating and and de-Humidify Peating and		N. 27 28 28	PAR. rd0 rd1 rd2	DEF. 3 0 60	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off.	125 %rH 010 %rH 0240 " s
33		N. 27 28 28 30	rd0 rd1 rd2 rd3	DEF. 3 0 60 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are inde-	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and
33		N. 27 28 28 30 31	PAR. rd0 rd1 rd2 rd3 rd4	DEF. 3 0 60 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat
Humidify Output On Time (or Fan if no rH output configured). 0 = Humidify output on figured). 0 = Humidify output off.		N. 27 28 28 30 31	PAR. rd0 rd1 rd2 rd3 rd4	DEF. 3 0 60 0 1	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat
35		N. 27 28 28 30 31 32 N. 33	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR.	DEF. 3 0 60 0 1 DEF3	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone)	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH
N. PAR. DEF. COMPRESSOR MIN MAX.		N. 27 28 28 30 31 32 N. 33	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR.	DEF. 3 0 60 0 1 DEF3	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone)	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH
N. PAR. DEF. COMPRESSOR MIN MAX.		N. 27 28 28 30 31 32 N. 33	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0	DEF. 3 0 60 0 1 DEF. -3	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with De-frost output if no heating output is available. HUMIDIFY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off.	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH 010 % %rH
37		N. 27 28 28 30 31 32 N. 33 34 35	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1	DEF. 3 0 60 0 1 0 DEF. -3 0 60	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured).	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 010 % %rH 0240 " s
38		N. 27 28 28 30 31 32 N. 33 34 35 36	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output normal. COMPRESSOR	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 010 % %rH 0240 " s
39		N. 27 28 28 30 31 32 N. 33 34 35 N.	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3	DEF. 3 0 60 0 1 0 DEF3 0 60 0 DEF.	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DIFY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off Time (or Fan if no rH output configured). 0 CHUMPRESSOR COMPRESSOR	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 010 % %rH 0240 " s MI N MAX.
40 C4 10 Compressor OFF Time during Cabinet Probe Alarm 41 C5 10 Compressor ON Time during Cabinet Probe Alarm 42 C6 80 Threshold for High Condensation Warning 43 C7 90 Threshold for High Condensation Alarm Delay for high condensing. 44 C8 0 Compressor Shutdown Alarm Delay for high condensing. 45 C10 0 Compressor run time for Service 46 C11 10 Compressor 2 On Delay after Compressor 1 N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 28 30 31 32 N. 33 34 35 N. 37	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). Compressor ON Delay After Power-on Compressor OFF Minimum	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 010 % %rH 0240 " s MI N MAX.
41 C5 10 Compressor ON Time during Cabinet Probe Alarm 42 C6 80 Threshold for High Condensation Warning 43 C7 90 Threshold for High Condensation Alarm 44 C8 0 Compressor Shutdown Alarm Delay for high condensing. 45 C10 0 Compressor run time for Service 46 C11 10 Compressor 2 On Delay after Compressor 1 N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 30 31 32 N. 33 34 35 N. 37 38	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. C0 C2	DEF. 3 0 60 0 1 DEF. -3 0 60 0 DEF. 3	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DIFY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Neutral Zone Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor ON Minimum	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 0240 " s 0240 " s MI N MAX. 0240 min 0240 min
42 C6 80 Threshold for High Condensation Warning 43 C7 90 Threshold for High Condensation Warning 44 C8 0 Compressor Shutdown Alarm 45 C10 0 Compressor run time for Service 46 C11 10 Compressor 2 On Delay after Compressor 1 N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0199 ° C/F 015 min 015 min 0240 " s		N. 27 28 28 30 31 32 N. 33 34 35 N. 37 38 39	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. C0 C2 C3	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 3 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor ON Minimum Time Compressor OFF Time during	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 010 % %rH 0240 " s MI N MAX. 0240 min 0240 min 0240 " s
tion Warning 43 C7 90 Threshold for High Condensation Alarm 44 C8 0 Compressor Shutdown Alarm Delay for high condensing. 45 C10 0 Compressor run time for Service 46 C11 10 Compressor 2 On Delay after Compressor 1 N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 30 31 32 N. 33 34 35 N. 37 38 39 40	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 c0 c2 c3 c4	DEF. 3 0 60 0 1 DEF3 0 60 0 DEF. 0 3 0 10	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0=normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DIFY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off. COMPRESSOR Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor OFF Minimum Time Compressor OFF Time during Cabinet Probe Alarm Compressor ON Time during	125 %rH 010 %rH 0240 " s 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH 0240 " s MIN MAX. 0240 min 0240 min 0240 min
44 C8 0 Compressor Shutdown Alarm 45 C10 0 Compressor run time for Service 46 C11 10 Compressor 2 On Delay after Compressor 1 N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 28 30 31 32 N. 33 34 35 N. 37 38 39 40 41	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. C0 C2 C3 C4 C5	DEF. 3 0 60 0 1 0 DEF3 0 60 0 DEF. 0 10 10	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor OFF Minimum Time Compressor OFF Time during Cabinet Probe Alarm Threshold for High Condensa-	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 010 % %rH 0240 " s MI N MAX. 0240 min 0240 min 0240 min 0240 min 0240 min
44 C8 Delay for high condensing. U15 min 45 C10 O Compressor run time for Service 46 C11 10 Compressor 2 On Delay after Compressor 1 N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 30 31 32 N. 33 34 35 N. 37 38 39 40 41 42	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 c0 c2 c3 c4 c5 c6	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0 3 0 10 10 80	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor ON Minimum Time Compressor ON Time during Cabinet Probe Alarm Compressor ON Time during Cabinet Probe Alarm Threshold for High Condensation Warning	125 %rH 010 %rH 0240 " s 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH 010 % %rH 0240 " s MIN MAX. 0240 min
46 C11 10 Compressor 2 On Delay after Compressor 1 0240 " s N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 30 31 32 N. 33 34 35 N. 37 38 39 40 41 42	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 c0 c2 c3 c4 c5 c6	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0 3 0 10 10 80	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor OFF Minimum Time Compressor OFF Time during Cabinet Probe Alarm Compressor ON Time during Cabinet Probe Alarm Threshold for High Condensation Warning Threshold for High Condensation Alarm	125 %rH 010 %rH 0240 " s 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH 010 % %rH 0240 " s MIN MAX. 0240 min
N. PAR. DEF. DEFROST DEFRO		N. 27 28 28 30 31 32 N. 33 34 35 N. 37 38 39 40 41 42 43	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. C0 C2 C3 C4 C5 C6 C7	DEF. 3 0 60 0 1 1 0 DEF3 0 60 0 DEF. 0 10 10 80	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor OFF Minimum Time Compressor OFF Time during Cabinet Probe Alarm Threshold for High Condensation Warning Threshold for High Condensation Warning Compressor Shutdown Alarm Delay for high condensing.	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 0240 " s 0240 " s MI N MAX. 0240 min
N. PAR. DEF. DEFROST MIN MAX. 47 d0 8 Defrost interval time 099 min 0 = Electric		N. 27 28 30 31 32 N. 33 34 35 N. 37 38 39 40 41 42 43	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. c0 c2 c3 c4 c5 c6 c7 c8	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0 3 0 10 10 80 90 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DIFY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Neutral Zone Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off. COMPRESSOR Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor ON F Minimum Time Compressor OFF Time during Cabinet Probe Alarm Compressor ON Time during Cabinet Probe Alarm Threshold for High Condensation Warning Threshold for High Condensation Marin Delay for high condensing. Compressor Shutdown Alarm Delay for high condensing.	125 %rH 010 %rH 0240 " s 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 0240 " s MI N MAX. 0240 min 0199 ° C/F 015 min
0 = Electric		N. 27 28 30 31 32 N. 33 34 35 36 N. 37 38 39 40 41 42 43 44 45	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. C0 C2 C3 C4 C5 C6 C7 C8 C10	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0 3 0 10 10 80 90 0	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output off Time (or Fan if no rH output configured). 0= Humidify Output off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify Output Off Time (or Fan if no rH output configured). 1 Threshold for High Condensation Warning 1 Threshold for High Condensation Alarm 1 Compressor Shutdown Alarm 2 Delay for high condensing. 2 Compressor 2 On Delay after	125 %rH 010 %rH 0240 " s 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 0240 " s 0240 " s MI N MAX. 0240 min 0240 min
		N. 27 28 30 31 32 N. 33 34 35 36 N. 37 38 39 40 41 42 43 44 45 46	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. c0 C2 C3 C4 C5 C6 C7 C8 C10 C11 PAR.	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0 3 0 10 10 80 90 0 10	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor ON Time during Cabinet Probe Alarm Threshold for High Condensation Warning Threshold for High Condensation Alarm Compressor Shutdown Alarm Delay for high condensing. Compressor 1 On Delay after Compressor 1	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MIN MAX. -251 %rH 0240 " s MIN MAX. 0240 min 0240 min 0240 min 0240 min 0240 min 0199 ° C/F 015 min days 0240 " s MIN MAX.
2 = Compressor Stop		N. 27 28 30 31 32 N. 33 34 35 36 N. 37 38 39 40 41 42 43 44 45 46 N.	PAR. rd0 rd1 rd2 rd3 rd4 rd5 PAR. rh0 rh1 rh2 rh3 PAR. c0 C2 C3 C4 C5 C6 C7 C8 C10 C11 PAR.	DEF. 3 0 60 0 1 0 DEF. -3 0 60 0 DEF. 0 3 0 10 10 80 90 0 10 DEF.	DE-HUMI DI FY REGULATION De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone) De-Humidify Neutral Zone Fan On Time in De_humidify. 0= fan off. Fan Off Time In De-Humidify. 0= normal function. De-Humidify with Compressor or compressor and heater. 0= temperature and dehumidity outputs are independent. Heating and de-Humidify functions executed with Defrost output if no heating output is available. HUMI DI FY REGULATION Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone) Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off. Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output off Time (or Fan if no rH output configured). COMPRESSOR Compressor ON Delay After Power-on Compressor ON Delay After Power-on Compressor ON Time during Cabinet Probe Alarm Threshold for High Condensation Warning Threshold for High Condensation Malarm Compressor 2 On Delay after Compressor 1 DEFROST	125 %rH 010 %rH 0240 " s 0240 " s 0 = Disabled 1 = Compressor 1 2 = Compressor and Heat 0=no 1=Yes MI N MAX. -251 %rH 0240 " s MI N MAX. 0240 min 0240 min 0240 min 0240 min 0240 min 0240 min 0199 ° C/F 015 min days 0240 " s MI N MAX. 0240 " s

VCO S.p.A.	EVJ506	Instruction sheet ver.	1.0	Codice 1	04J506E103	Page 4 of 4	LC 36/18

1	d3	30	Defrost Duration	099 min 0=no 1=power on
51	d4	0	Enable Defrost at Power-on	2= post overcooling 3= power on and post overcooling
52	d5	0	Defrost Delay after Power-on	099 min
53	d6	1	Value Displayed during De- frost	0 = Regulation Value 1 = Display Locked 2 = reserved
55	d7	0	Dripping Time	015 min
56	d11	o	Enable Defrost Time-Out Alarm	0=NO 1=YES
57	d15	o	Compressor ON Consecutive Time for Hot Gas Defrost	099 min
N.	PAR.	DEF.	ALARMS	MIN MAX.
58	A1	О	Threshold for Low Tempera- ture Alarm	-99+99 ° ° C/F
59	A2	2	Low Temperature Alarm Type	0 = Disabled 1 = Relative to Setpoint 2 = Absolute
60	A4	50	Threshold for High Tempera- ture Alarm	-99+99 ° C/F
61	A 5	2	HighTemperature Alarm Type	0 = Disabled 1 = Relative to Setpoint 2 = Absolute
62	A6	120	High Temperature Alarm De- lay after Power-on	0240 min
63	A7	15	Temperature alarm delay	0240 min
64	A8	15	High Temperature Alarm De- lay After Defrost	0240 min
65	А9	15	High Temperature Alarm De- lay after Door Closing	0240 min
66	A10	15	Power Failure Duration for PF Alarm Recording	0240 min
67	A11	1	High/Low Temperature Alarm Reset Differential	0,115 ° C/F
68	AH1	50	Low Humidity Alarm relative to SET2	0100 %rH
69	AH4	50	High Humidity Alarm relative to SET2	0100 %rH
70	AH7	30	Humidity Alarm Delay and sensor error.	0240 min
L			sensor error.	
N.	PAR.	DEF.	EVAPORATOR FAN	MIN MAX.
N .	FO FO	DEF.	EVAPORATOR FAN Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11- F12, rd2-rd3, rh2-rh3 can enable a fan cycling regula- tion. For safety reason (use of heating elements and cycles) check the fan control chapter.	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temper- ature) 4 = Thermoregulated if Compressor ON (with F1 relative to
			Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11- F12, rd2-rd3, rh2-rh3 can enable a fan cycling regula- tion. For safety reason (use of heating elements and cycles)	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temper- ature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temper-
71	FO	1	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11-F12, rd2-rd3, rh2-rh3 can enable a fan cycling regulation. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temper- ature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temper- ature)
71	FO F1	1 99	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11-F12, rd2-rd3, rh2-rh3 can enable a fan cycling regulation. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8". Evaporator Fan Mode during Defrost Evaporator Fan OFF Maxi-	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temperature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temperature) -99+99 °C/F 0 = OFF 1 = ON
71 72 73	F0 F1 F2	99	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11-F12, rd2-rd3, rh2-rh3 can enable a fan cycling regulation. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8". Evaporator Fan Mode during Defrost	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temper- ature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temper- ature) -99+99 °C/F 0 = OFF 1 = ON 2 = According to FO
71 72 73	F0 F1 F2 F3	99	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11-F12, rd2-rd3, rh2-rh3 can enable a fan cycling regulation. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8". Evaporator Fan Mode during Defrost Evaporator Fan OFF Maximum Time after Dripping Threshold for Evaporator Fan ON after Dripping (relative to	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temper- ature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temper- ature) -99+99 °C/F 0 = OFF 1 = ON 2 = According to FO 015 min
71 72 73 74 75	F0 F1 F2 F3 F7	99 0 0 99	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11- F12, rd2-rd3, rh2-rh3 can enable a fan cycling regula- tion. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8". Evaporator Fan Mode during Defrost Evaporator Fan OFF Maxi- mum Time after Dripping Threshold for Evaporator Fan ON after Dripping (relative to Setpoint) Evaporator Setpoint Differen-	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temperature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temperature) -99+99 °C/F 0 = OFF 1 = ON 2 = According to F0 015 min
71 72 73 74 75 76	F0 F1 F2 F3 F7 F8	1 99 0 0 99 2	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11- F12, rd2-rd3, rh2-rh3 can enable a fan cycling regula- tion. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8". Evaporator Fan Mode during Defrost Evaporator Fan OFF Maxi- mum Time after Dripping Threshold for Evaporator Fan ON after Dripping (relative to Setpoint) Evaporator Fan OFF Delay af- ter Compressor OFF Fan On Time with no regula-	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temperature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temperature) -99+99 °C/F 0 = OFF 1 = ON 2 = According to F0 015 min -99+99 ° C/F
71 72 73 74 75 76 77	F0 F1 F2 F3 F7 F8 F9	99 0 0 99 2 5	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11-F12, rd2-rd3, rh2-rh3 can enable a fan cycling regulation. For safety reason (use of heating elements and cycles) check the fan control chapter. Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8". Evaporator Fan Mode during Defrost Evaporator Fan OFF Maximum Time after Dripping Threshold for Evaporator Fan ON after Dripping (relative to Setpoint) Evaporator Setpoint Differential Evaporator Fan OFF Delay after Compressor OFF	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temperature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temperature) -99+99 °C/F 0 = OFF 1 = ON 2 = According to F0 015 min -99+99 ° C/F 0,115 ° C/F 0240 "

N. PAR. DEF. CONDENSER FAN

MIN... MAX.

ı				T	T
	80	Fc1	25	Threshold for Condenser Fan ON	099 ° C/F
	81	Fc2	5	Condenser Fan Differential	0,115 ° C/F
	82	Fc3	5	Condenser Fan Off delay	0240 " s
	N.	PAR.	DEF.	DIGITAL INPUTS FUNC	MIN MAX.
	83	i1	0	Lock Display with Open Door	0240 min
	84	i2	15	Open Door Alarm Delay1=disabled 0= immediate	-1120 min
	85	i3	15	Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without restarting.	-1120 min
Id	86	i5	0	Multi-purpose Input Alarm Delay	0120 min
	87	i6	60	High Pressure Events Count- ing Interval	0120 min
	88	i7	60	Multi-purpose Input Alarm Delay	0120 min
	89	i8	1	Digital Input Event Counting For Pressure or Thermal Alarm. 0= always automatic, 1= always manual.	015
	N.	PAR.	DEF.	UAXILIARY RELAY	MIN MAX.
	90	u6	0	Auxiliary output configuration. The manual control is operated via AUX key.	0= Heating 1= Cooling 2= Manual
×	91	u7	0.0	Auxiliary Setpoint if "u6=1 or 2".	-99+99 ° C/F
	92	u8	1.0	Auxiliary differential for "u7" if "u6=1 or 2"	0,115 ° C/F
	N.	PAR.	DEF.	DIGITAL INPUT CONF.	MIN MAX.
Id	93	iC1	7	Multi-purpose Input Function, Door switch: 7,8 or 9.	1 = Multifunction alarm 2 = reserved 3 = = reserved 4 = Stand-by 5 = Thermal Switch 1 5 = Thermal Switch 2 7 = Compressor + Evaporator Fan OFF, Light ON 8 = Evaporator Fan OFF, Light ON 9 = Compressor + Evaporator Fan OFF, Light ON
×	94	iP1	0	Multi-purpose Input 1 Activation. 0= function active for contact closed.	0=closed 1=open
	95	iC3	0	Digital Input 3 configuration Pr3=0.	0= disabled 1= high pressure switch
	96	iP3	0	Multi-purpose Input 3 Activation. 0= function active for contact closed.	0=closed 1=open
	N.	PAR.	DEF.	DIGITAL OUTPUTS CONF.	MIN MAX.
	97	uc1	4	K1 Output Configuration (C)	0 = Disabled
	98	uc2	5	K2 Output Configuration (Ht)	1 = Humidity 2 = de-Humidfy
	99	uc3	9	K3 Output Configuration (L)	3 = Alarm
	100	uc4	1	K4 Output Configuration (rH)	4 = Compressor 1
	101	uc5	11	K5 Output Configuration (EF)	5 = Heating
	102	uc6	12	K6 Output Configuration (Def)	6 = Condenser Fans 7 = ON / STAND-BY 8 = Air Change 9 = Light 10 = Compressor 2 11 = Evaporator Fans 12 = Defrost 13 = Reserved 14 = Evaporator Fan 2 15 = Auxiliary Relay
	N.	PAR.	DEF.	TOUCH KEYS	MIN MAX.
	103	POF	1	Enable ON/Stand-by Key	
	103				
	104				10 - no 1 1100
€	104 105	PLi PSr	1	Light button in stand-by Disable Alarm Output by Si-	0 = no 1 = yes 0 = no 1 = yes

				lencing the Buzzer	
	106	Pbu	2	Enable key and Buzzer Function	0 = no 1 = only alarm, no keys 2 = alarm and keys
	N.	PAR.	DEF.	PASSWORD	MIN MAX.
	107	PAS	-19	Password for all parameters	-99 999
	108	PS1	1	Level 1 service	-99 999
\odot	109	PA1	426	Evlink user password	-99 999
	110	PS2	824	Evlink service password	-99 999
	N.	PAR.	DEF.	сьоск	MIN MAX.
(111	Hr0	0/1	Enable clock function. 1= for models provided with rtc or EVLINK on board.	0 = no 1 = yes
	N.	PAR.	DEF.	DATALOGGER	MIN MAX.
	112	BLE	1	"1"= EVLINK presence leaving LA, Lb and LP to default. To enable modbus communication via EVIF22/23TSX modules set to "0".	0 = no (Modbus active) 1 = Yes (EVLINK active)
	113	rE0	15	Recording interval	0240 min
	114	rE1	4	Select Probes for Data-logger Recording	0=none 1=probe 1; 2= probe 2 3= probe 3; 4= probe 1 e probe 2; 5= all probes
	N.	PAR.	DEF.	REAL TIME DEFROST Hr0=1	MIN MAX.
	115	Hd1		1st Daily Defrost Time	024 h
	116	Hd2		2nd Daily Defrost Time	024 h
(L)	117	Hd3		3d Daily Defrost Time	024 h
	118	Hd4		4th Daily Defrost Time	024 h
	119	Hd5		5th Daily Defrost Time	024 h
	120	Hd6		6th Daily Defrost Time	024 h
	N.	PAR.	DEF.	MODBUS	MIN MAX.
	121	LA	247	MODBUS address if BLE=0	1 247
RS485	122	Lb	3	MODBUS Baud Rate if BLE=0.	0= 2400; 1= 4800 2= 9600; 3= 19200
	123	LP	2	Modbus Parity if BLE=0.	0= None; 1= Odd; 2= Even
	N.	PAR.	DEF.	ENERGY SAVING	MIN MAX.
⊳ 0.	124	HE2	0	Energy Saving Max Duration in manual mode	0990 min
0	125	H01	o	Energy Saving Start Time	023h
*	123	1101	_	with rtc Hr0=1	

The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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