

5.4 Failure Messages in ESM 3722 Hatcher Controller

1-56c1Screen Blinking Temperature Sensor failure . Sensor connection is wrong or there is no sensor connection. While this message shown on this display,if buzzer function selection bus is 3, 5, 7 or 8 internal buzzer starts to operate.

2- 5br 2 Screen Blinking Humidity Sensor failure . Sensor connection is wrong or there is no sensor connection. While this message shown on this display,if buzzer function selection by is 4, 6,7 or 8 internal buzzer starts to operate.

3- In main operating screen if the upper display is blinking, it means that temperature alarm exits and alarm output is active .if buzzer function selection buzzer starts to operate. 4- In main operating screen if the lower display is blinking, it means that humidity alarm exits and alarm output is active .if buzzer function selection $[\underline{b} \, \underline{u} \, F]$ is 2, 6 or 8 internal buzzer starts to operate.

5- Self Tune temperature error. $\[\mathcal{E}_{\mathcal{E},\mathcal{C}}\]$ Appears on the main screen.this fault occurs when the temperature read from the sensor is closer to the Process Set value than 5% of the scale(5 ° C for the ProNem Mini PMI-P sensor). Self tune operation is not allowed.

6. Manual Start of Egg Tray Rotator Operation with Engine Button



While button protection parameter value is PrE 0,1,2 or 4 in main operation screen if engine button is pressed 3 sec. manual engine start will be active. When the button is released the engine start will be passive and engine stops.

7. Self Tune Metod

Self Tune method is used for determining PID parameters used by the device

Starting Self Tune (Step Response Tuning) Operation by the user:

· Adjust temperature control on/off or PID parameter

• Adjust self tune selection parameter (\(\begin{aligned}
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\beg

• In the main screen "Tune" and Temperature value are should alternately.

If Self Tune operation is finished without any problem, the device saves the new PID coefficients to memory and continue to run.

EUnE Parameter is adjusted _____ automatically.

NOT: The temperature value read from the sensor must be less than 5% of the process set value in order to start the self tune operation (5 ° C for the ProNem Mini PMI-P sensor).

Cancelling Self Tune(Step Response Tuning) operation

1 - If sensor breaks:

2 - If auto tune operation can not be completed in 8 hours;

3 - If user adjusts LunE parameter no;

4- During self tune operation if the user changes the temperature control from pid to on/off;

5 - If process set value is changed while self tune operation is being performed;

elf tune is canceled. "Tune" is not displayed. Then, without doing any changes in PID parameters device continues to run with previous PID parameters.

: Hatcher Controller

: 1Joule (IK06)

: Fixed installation

: 10 -30V--- - 3.5W

: Continuous

Panel cut out is 71 x 29 mm.

: Ip65 at front, Ip20 at rear.

none condensing humidity. : -30 °C to +80 °C / -30 °C to +80 °C

90 % max. (None condensing)

: 230V~ (±%15) 50/60Hz - 3.5VA

: 115V~ (±%15) 50/60Hz - 3.5VA

: 24V~ (±%15) 50/60Hz - 3.5VA

: 24V (±%15) 50/60Hz - 3.5VA

Approximately 0.2 Kg

: 76 mm x 34.5 mm x71 mm Plastic housing for panel

: II, office or workplace, none conductive pollution

: NTC, PTC, PT-100,0/2..10V==_,0/4..20mA=== or

Standart, indoor at an altitude of less than 2000 meters with

8. Specifications Device Type Housing&Mounting

Protection Against **Mechanical Impacts Protection Clas**

Weight **Environmental Ratings**

Storage / Operating Humidity Installation Overvoltage Category

Pollution Degree **Operating Conditions**

Storage / Operating Temperature

Supply Voltage and Power

Temperature Sensor Input

5.5 Entering To The Programming Mode, Changing and Saving Parameter

Main Operation Screen *Pro5 (***) 40.8_%

When SET button is pressed for 3 Note1: If programming seconds, "P" led turn. If programming mode accessing password mode entering password is different is 0, Temperature Unit from 0, programming mode entering screen \mathcal{L} - \mathcal{F} is observed screen Pr [] will be observed.

Password Entering Screen

Prob

password with increment and

Programming Mode Entering Screen Press SET button for accessing to the instead of programming password entering screen Pr [

Password Entering Screen Press SET/OK button for Enter programming mode accessing

decrement buttons. Note2: If programming mode accessing password is 0, only three parameters are accessible, and the

parameter values can be changed. **Temperature Unit Selection Programming Screen** Parameter Value (***) Press SET button for accessing to the Change the value with increment

parameter value. Press increment button for accessing to the next parameter, press decrement button for accessing to the previous parameter. **Temperature Unit Selection** Parameter Value

Press set button for saving the parameter.

Decimal Separator Enabling Selection Screen թոե Press increment button for accessing to

and decrement buttons.

Prob

entering the password.

the next parameter, press decrement button for accessing to the previous parameter

NTC input type

PTC input type

Accuracy

Control Form Relay Outputs

LED Displays

Internal Buzzer

Upprovals

Humidity input type

Termoresistance input type

Sensor Break Protection

Optional SSR Driver Output

10. Other Informations

Power Supply Voltage

4 0/2..10Vdc Voltage Input

5 0/4..20mA Current Input

5 0/4.,20mA Current Input

6 ProNem Mini PMI-P

C Humidity Sensor Input

6 ProNem Mini PMI-P

2 24V (±%15) 50/60Hz - 3.5VA

3 24V~ (±%15) 50/60Hz - 3.5VA

5 230V~ (±%15) 50/60Hz - 3.5VA

115V~ (±%15) 50/60Hz - 3.5VA

B Temperature Sensor Input | Scale(°C/°F)

Temperature Display Humidity Display

If no operation is performed in programming mode for 20 seconds, device turns to main operation screen automatically.

: NTC (10 kΩ @25 °C)

: ± 1 % of full scale

PID or ON / OFF

: Upscale

: ≥83dB

: **C €**,{}|

A B C D E / FG HI / U V W Z

0°C/32°F ;100°C/212°F

)°C/32°F :100°C/212°

0°C/32°F;100°C/212°

-20°C/-4°F; 80°C/176°F

User defined

Scale (%)

0% - 100%

0% - 100%

0% - 100%

: PTC (1000 Ω @25 °C)

: PT-100 IEC751 (ITS90)

and Egg tray rotator Output

Maximum 30mA, Maximum 15V

: 8 mm Green 4 digit LED Display

E | Heating Output

FG Humidifier Output

Alarm Output

| Egg Try Rotator Output

: 8 mm Red 4 digit LED Display

Heating Output (Red),

All order information of ESM-3722 Hatcher Controller are given on the table at above. User may form

appropriate device configuration from information and codes that at the table and convert it to the

ordering codes. Firstly, supply voltage then other specifications must be determined. Please fill the order

Note-1: If input type is selected PTC or NTC (B = 2, 3), Temperature sensor is given with the

device. For this reason, if input type is selected as PTC, sensor type (V = 0,1 or 2) or if input type is

Before commissioning the device, parameters must be set in accordance with desired use.

Because of limited mechanical life of relay output contact, SSR output is recommended which

the device use PID control algoritm. The device with ON/OFF control algoritm, hysteresis

parameter must be set a suitable value for your system, to avoid too much relay switching.

nology Partner web page to download detailed user manual.

www.emkoelektronik.com.tr

Thank you very much for your preference to use Emko Elektronik products, please visit our

code blanks according to your needs. Please contact us, if your needs are out of the standards.

selected as NTC, sensor type (V = 0, 3 or 4) must be declared in ordering information.

Incomplete or incorrect configuration can cause dangerous stiuations.

: 0/2..10V===,0/4..20mA=== or ProNem Mini PMI-P

: 5 A@250 V \simes at Resistive Load (Heating Output)

: P (Green),%(Green),°C (Red), °F(Red), Alarm (Red),

Humidifier Output (Red), Egg tray rotator Output (Red)

Relay Output (5 A@250 V ~,at Resistive Load 1NC ,1 NO)

Output (3A@250 V ~,at Resistive Load .1 NO

elay Output (3A@250 V ~,at Resistive Load ,1 NC

PTCS-M6L30.K1.5.1/8"(PTC Liquid Probe with 1.5 m silicon cable

3 NTC-M5L20.K1.5 (NTC Probe thermoplastic moulded with 1.5m cable for cooling application)
4 NTC-M6L50.K1.5 (NTC Probe stainless steel housing with

1.5m cable for cooling application)
ProNem Mini PMI-P (2.5m cable for Temperature and

V Temp.Sensor which is given with ESM-3722

TC-M6L40.K1.5 (PTC Air Probe 1.5 m silicon

: 3 A@250 V \sim at Resistive Load (Humidificating, Alarm

BEMKO

ESM-3722 77 x 35 DIN Size Digital Hatcher Controller

- 4 Digits for Temperature Display4 Digits for Humidity Display
- Temperature Sensor Input
- NTC, PTC, PT-100, 0/2..10V, 0/4..20mA or ProNem Mini PMI-P
- (Must be determined in order.) **Humidity Sensor Input**
- 0/2..10V, 0/4..20mA or ProNem Mini PMI-P
- (Must be determined in order.) - 4 Output
- **Heating Control Output** Egg tray rotator Output
- **Humidification Control Output**
- **Alarm Control Output** - Relay or SSR Outputs (Must be determined in order.)
- Selectable Temparature Control (PID or ON / OFF)
- Auto-Tune PID
- Set value boundaries
- Manual Start of tray rotator from front panel - Alarm parametreters
- Adjustable internal buzzer according to the alarm situations
- Password protection for programming mode,

Instruction Manual. ENG ESM-3722 01 V10 04/22

Controlle

Hatcher

Size

D D

x35

ESM-3722

A visual inspection of this product for possible damage occurred during shipment is recommended before installation

It is your responsibility to ensure that qualified mechanical and electrical technicians install this product.

The unit is normally supplied without a power supply switch or a fuse. Use power switch and fuse as

Keep the power off until all of the wiring is completed so that electric shock and trouble with the unit can

malfunction, electric shock or fire.

Do not use the unit in combustible or explosive gaseous atmospheres.

During putting equipment in hole on the metal panel while mechanical installation some metal burrs can cause injury on hands, you must be careful.

Montage of the product on a system must be done with it's fixing clamps. Do not do the montage of the device with inappropriate fixing clamp. Be sure that device will not fall while doing the montage.

stronik warrants that the equipment delivered is free from defects in ma workmanship. This warranty is provided for a period of two years. The warranty period starts from the delivery date. This warranty is in force if duty and responsibilities which are determined in warranty document and instruction manual performs by the customer completely.

Repairs should only be performed by trained and specialized personnel. Cut power to the device before accessing internal parts.

solvents can reduce the mechanical reliability of the device. Use a cloth dampened in ethyl alcohol or water to clean the external plastic case

Manufacturer Information

Emko Elektronik Sanayi ve Ticaret A.Ş.

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If there is danger of serious accident resulting from a failure or defect in this unit, power off the system and separate the electrical connection of the device from the system.

Be sure to use the rated power supply voltage to protect the unit against damage and to prevent failure

Never attempt to disassemble, modify or repair this unit. Tampering with the unit may results in

It is your responsibility if this equipment is used in a manner not specified in this instruction manual.

1.4 Warranty

Do not clean the case with hydrocarbon-based solvents (Petrol, Trichlorethylene etc.). Use of these

1.6 Manufacturer Company

Bursa Organize Sanayi Bölgesi, (Fethiye OSB Mah.) Ali Osman Sönmez Bulvarı,

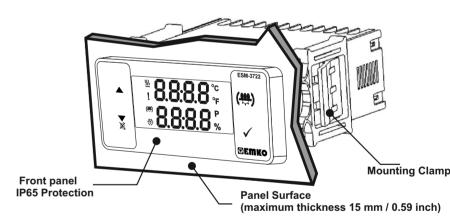
2. Sokak, No:3 16215 BURSA/TÜRKİYE Tel: +90 224 261 19 00 Fax: +90 224 261 19 12

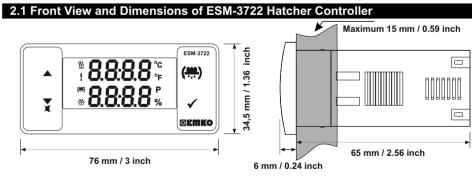
Repair and maintenance service information: Emko Elektronik Sanayi ve Ticaret A.Ş.

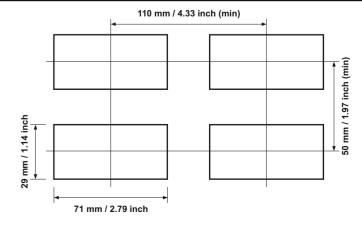
Bursa Organize Sanayi Bölgesi, (Fethiye OSB Mah.) Ali Osman Sönmez Bulvarı. 2. Sokak, No:3 16215 BURSA/TÜRKİYE

Tel: +90 224 261 19 00

Fax: +90 224 261 19 12







Max. Operating Humidity: 90% Rh (non-condensing)

ESM 3722-HT series Hatcher controllers are designed for controlling hatcher process. Device

can be used easily with PID or On-Off control form and manual start of egg tray rotator properties

1.1 Environmental Ratings

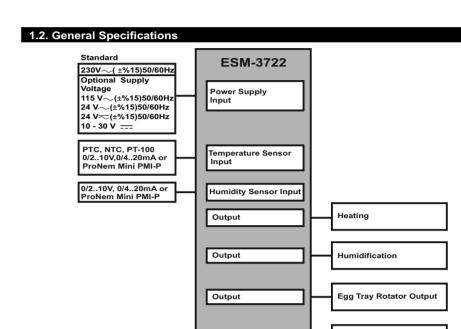
Operating Temperature : -30 to 80 °C

: Up to 2000 m.

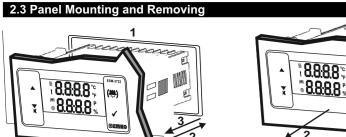
1.Preface

Forbidden Conditions Corrosive atmosphere Explosive atmosphere

Home applications (The unit is only for industrial applications)



2.2 Panel Cut- Out



1-Before mounting the device in your panel, make sure that the cut-out is of the right size. 2-Insert the device through the cut-out. If the mounting clamps are on the unit, put out them before inserting the unit to the panel.

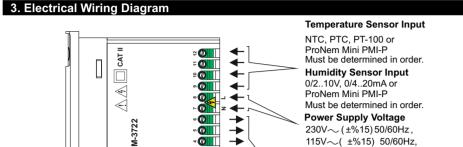
3- Insert the mounting clamps to the fixing sockets that located left and right sides of device and make the unit completely immobile within the



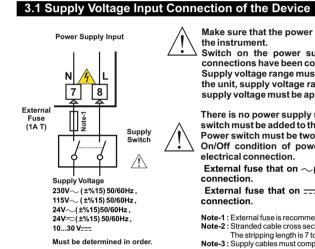
fixing sockets.

Before starting to remove the unit from panel, power off the unit and the related system.

2-Pull the unit through the front side of the



Must be determined in order. Relay Outputs



Make sure that the power supply voltage is the same indicated on

10...30 V---

 $24V \sim (\pm \%15) 50/60 Hz$,

24V (±%15)50/60Hz,

Switch on the power supply only after that all the electrical connections have been completed. Supply voltage range must be determined in order. While installing the unit, supply voltage range must be controlled and appropriate supply voltage must be applied to the unit.

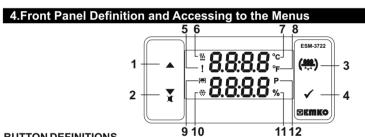
There is no power supply switch on the device. So a power supply switch must be added to the supply voltage input.

Power switch must be two poled for seperating phase and neutral,

On/Off condition of power supply switch is very important in electrical connection

External fuse that on ~power supply inputs must be on phase External fuse that on === power supply inputs must be on (+)

Note-1: External fuse is recommended.
Note-2: Stranded cable cross section: 1,5mm², Solid cable cross-section: 2,5mm²
The stripping length is 7 to 9 mm.
Note-3: Supply cables must comply with the requirements of IEC 60277 or IEC 60245.



BUTTON DEFINITIONS

1. Increment Button: ** In main operation screen, press this button to change display temperature

** It is used to increase the value in the Temperature and Humidity Set screens and Programming mode. 2. Decrement, Silencing Buzzer Button: ** It is used to decrease the value in the Set screen and Programming mode.

** It is used to silence the buzzer.

3. Manual Start of Egg Tray Rotator Operation Button: **In the main operation screen, if this button pressed engine starts. When the button is released the engine start will be passive and engine stops.

4. Set Button: ** In the main operation screen; if this button pressed for the first time, Temperature set value will be displayed. Value can be changed using increment and decrement buttons. When Set button is pressed again, value is saved and Humidty set value will be displayed next. Value can be changed using increment and decrement buttons. When Set button pressed again, value is saved and returns back to main operating screen.

** To access the programming screen; in the main operation screen, press and hold this button for 5

** It is used to save value in the Set screens (Temperature or Humidity) and programming screen.

LED DEFINITIONS

5.Alarm led: ** It is active when alarm statuses.

6. Heating Output Led: ** This led indicates that heating output is active.

7.Celcius led: ** Indicates that device is in °C mode

8.Fahrenheit led: ** Indicates that device is in °F mode. 9.Egg Tray Rotator Output Led: ** This led indicates that Egg Tray Rotator Output is active.

10. Humidificating Output Led: ** This led indicates that Humidity output is active. 11.Precent Sign ledi: ** Indicates that device is in Humidity Set screen.

12.Program led: ** Indicates that device is in programming mode

5. Changing and Saving Temperature and Humidity Set Value Main Operating Screen Temperature Set Value Screen

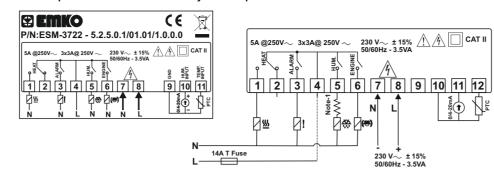
38.2° ***Ł5**EŁ (100) **40.8**% When SET button pressed "S" led will be active Temperature set value can be changed and temperature set value will be displayed. with increment and decrement buttons. **Humidity Set Value Screen** Temperature Set Value Screen 38.

Goes Humidity SET value screen.

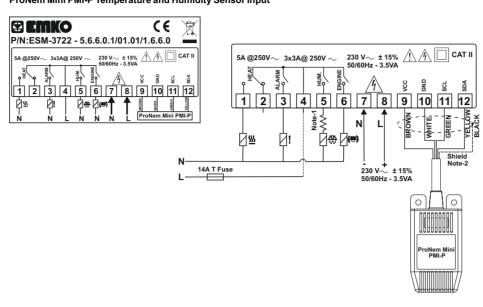
When SET button pressed temperature set value can be saved 3.2 Device Label and Connection Diagram

230V~ CONNECTION DIAGRAM

PTC Temperature and 0/4..20mA Humidity Sensor Input connection

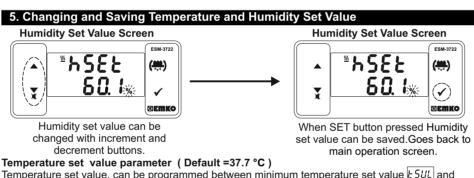


ProNem Mini PMI-P Temperature and Humidity Sensor Input



Note-1: User must be connected the resistor which is inside the box serially as shown in connection diagram when use the ultrasonic humidifier(30W...50W power supply) to protect the relay output contact problem.

Note-2: Shield (Black) pin must be connected to number 10 (GND) of the terminal block.



Temperature set value parameter (Default =37.7 °C)

Temperature set value, can be programmed between minimum temperature set value £5*UL* and

maximum temperature set value ESUR Humidity set value parameter (Default = 60%)

Humidity set value, can be programmed between minimum Humidity set value 5500 and maximum temperature set value | 5 U h |

If no operation is performed in Humidity set value changing mode and temperature set value

changing mode for 20 seconds, device turns to main operation screen automatically.	
5.1 Programming Mode Parameter List	
Temperature Unit Selection Parameter (Default = 0)	
C selected.	
°F selected.	
Decimal Seperator Enabling Parameter (Default = 0)	
None.	
Only Temperature parameters with decimal seperator.	
Only Humidity parameters with decimal seperator.	
Only Temperature and Humidity parameters with decimal seperator.	
Note: When value of [-F] or [Pn] parameters are changed, the values of [55], [55], [55], [55], [55]	

 $\lfloor \underline{e}_{SE} \rfloor$, $\lfloor \underline{e}_{RSE} \rfloor$, $\lfloor \underline{e}_{RSE} \rfloor$, $\lfloor \underline{e}_{RSE} \rfloor$, $\lfloor \underline{e}_{SSE} \rfloor$, $\lfloor \underline{e}_{RSE}

Note: $\boxed{\textit{E55L}}$, $\boxed{\textit{EuPL}}$ and $\boxed{\textit{ELoL}}$ parameters are shown, if the Temperature sensor analogue input type (0/2..10V or 0/4..20mA) is selected.

Temperature Sensor Scale Selection Parameter (Default = 0) Analogue (Temperature) input range is determined with this parameter. © 0..10V (1) veya 0..20mA (2) / 2..10V === veya 4..20mA ===

Temperature Sensor Scale Low Limit Parameter : (Default = 0) It can be adjusted from -1999 to (\(\begin{align*}
\begin{align*}
If £55½ =0, according to the device type 0V (1) or 0mA (2) If $\frac{1}{[55t]}$ =1, according to the device type 2V $\frac{(1)}{1}$ or 4mA $\frac{(2)}{1}$

Temperature Sensor Scale High Limit Parameter : (Default = 100) Temperature Sensor Scale High Limit Parameter . (Detail = 100), It can be adjusted from (\(\frac{\xi}{\xi} \cdot \frac{1}{\xi} \) to 9999. At this value analogue input becomes; According to the device type 10V \(\frac{11}{\xi} \) or 20mA \(\frac{(2)}{\xi} \)

Note : $[\underline{\mathcal{E}_{L} \circ L}]$, $[\underline{\mathcal{E}_{U} \circ L}]$ parameters are shown, if the Temperature sensor analogue input type is selected

, 0	g On - Off selected.
	/ PID selected.
	parameter is select 0, PID parameters ([ɛˈʊ̞̞̞ɛ], [ʔ], [ʔ], [ʔ], [ʔ] will be not observed.
EUnE	Self Tune (Step Response Tuning) Selection Parameter (Default =)
	Device does not do(Step Response Tuning) operation.
	YES Device does operation.
P	PID - Proportional Control Parameter (Default =1.0)
	This parameter value can be adjusted form 0.0 to 100.0. PID - Integral Parameter (Default = 300)
	This parameter value can be adjusted form 0 to 3600.
d	PID - Derivative Parameter (Default = 60.0)
	This parameter value can be adjusted form 0 to 999.9. PID -Period Time Parameter (Default = 1)
٤	This parameter value can be adjusted form 1 to 150 second.
£5P	PID -Temperature Protection Parameter (Default = oFF)
	When PID operation is performed, the heating output is switched off if the temperature value goes above the value <u>defined</u> by <u>ESP</u> . When the value is 0 or 0.0, if the value
	decrease button is pressed, oFF appears and this function is disabled. From 1 to 10°C for NTC,PTC, PT-100 (0°C, 100°C), From 1 to 18°F for NTC,PTC,PT-
	100 (32°F, 212°F),From 0.1 to 10.0°C for NTC, PTC, PT-100 (0.0°C,100.0°C), From 0.1 to 18.0°F for NTC, PTC, PT-100 (32.0°F,212.0°F) ,From 1 to 10°C for ProNem Mini
	PMI-P (-20°C, 80°C) ,From 1 to 18°F for ProNem Mini PMI-P (-4°F,176°F), From 0.1 to 10.0°C for ProNem Mini PMI-P (-20.0°C,80.0°C), From 0.1 to 18.0°F for ProNem Mini
	PMI-P (-4.0°F,176.0°F).
EHSE	Hysteresis Parameter for Temperature (Default = 0.1 °C) From 1 to 10°C for NTC,PTC, PT-100 (0°C, 100°C), From 1 to 18°F for NTC,PTC, PT-100
	(32°F, 212°F),From 0.1 to 10.0°C for NTC, PTC, PT-100 (0.0°C,100.0°C), From 0.1 to 18.0°F for NTC, PTC, PT-100 (32.0°F,212.0°F),From 1 to 10°C for ProNem Mini PMI-P
	(-20°C, 80°C), From 1 to 18°F for ProNem Mini PMI-P (-4°F,176°F), From 0.1 to 10.0°C for
	ProNem Mini PMI-P (-20.0°C,80.0°C), From 0.1 to 18.0°F for ProNem Mini PMI-P (-4.0°F,176.0°F).
	In ON/OFF control algorithm, temperature Temperature value is tried to keep equal to set value by
	opening or closing the last control element. ON/OFF controlled system, temperature
	value oscillates continuously. Temperature set value's oscillation period or amplitude around
	set value changes according to controlled system. For reducing oscillation period of
	temperature value, a threshold zone is formed Output
	below or around set value and this zone is named hysteresis.
ESUL	Minimum Temperature Set Value Parameter (Default = 10.0°C) Temperature set value can not be lower than this value. This parameter value can be
	adjusted from minimum value of device scale to maximum temperature set value parameter $\boxed{\cancel{\xi} \ 5 \ Uh}$
ESUH	Maximum Temperature Set Value Parameter (Default = 40.0 °C)
ייטכ	Temperature set value can not be greater than this value. This parameter value can be adjusted from minimum temperature set value parameter
_	to maximum value of the device scale.
	0
	9
	9
0 11	Time of Automatic Egg Tray Rotator (Default = 00:00)
NdE	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second.
NAF NAF	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute.
	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0)
ПаР	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute.
ПаР	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures.
ПаР	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures.
ПаР	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Humidity or Humidity sensor failures.
ПаР	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Humidity or Humidity sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures.
NaP Lout	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Humidity or Humidity sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures.
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Note: if Loobserved.	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Humidity or Humidity sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures.
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Note: if Loo observed. Note: if Loo observed. LALS	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Humidity or Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Parameter value is 3 or 6 [RES], [RBS], [RB
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Note: if Loo observed. Note: if Loo observed. LRLS	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Parameter value is 3 or 6 [RES], [RSL], [RSU],
Note: if Loub observed. Note: if Loub observed. LALS	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Parameter value is 3 or 6 [RES], [RSS], [RSU], [R
Note: if Loubobserved. Note: if Loubobserved. LASE LASE	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Humidity or Humidity sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Parameter value is 3 or 6 RESS, RESS
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Note: if coopserved. Note: if coopserved. LALS LALL LAUL LAUL	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm is inactive. Alarm-Temperature sensor failures. Alarm-Indirity sensor failures. Alarm-Indirity or Humidity sensor failures. Alarm-Indirity or Humidity sensor failures. Alarm-Temperature sensor failures or Humidity sensor failures or Humidity sensor failures. Alarm-Temperature or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Parameter value is 3 or 6 [RES] [RES
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Note: if coobserved. Note: if coobserved. LALS LASE LALL LAUL	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default=0) Alarm Is inactive. Alarm-Temperature sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Immidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures. Alarm-Temperature alarm selected. Process High alarm selected. Deviation Band alarm selected. Deviation Band alarm selected. Deviation Band alarm selected. Deviation Band alarm Hysteresis Parameter (Default = 50.0°C) This parameter value can be adjusted from to 0 %500 of the device scale. Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) If temperature alarm is active, this parameter value can be adjusted from minimum value of device scale to temperature alarm set semaximum parameter value can be defined from minimum value of device scale. Temperature Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Temperature Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Process
Note: if Loo observed. Note: if Loo observed. LALS	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default = 0) Alarm Is inactive. Alarm-Temperature sensor failures. Alarm-Humidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature or Humidity sensor failures. Alarm-Temperature or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Parameter value is 3 or 6 RESS, RESS
Note: if coopserved. Note: if coopserved. LALS LALL LAUL LAUL	Time of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 99:59 minute/second. Repeat cycle of Automatic Egg Tray Rotator (Default = 00:00) This parameter value can be adjusted form 00:00 to 24:00 hour/minute. Alarm Output Function Selection Parameter (Default=0) Alarm Is inactive. Alarm-Temperature sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Immidity sensor failures. Alarm-Temperature or Temperature sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures or Humidity sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures. Alarm-Temperature or Humidity or Temperature sensor failures. Alarm-Temperature alarm selected. Process High alarm selected. Deviation Band alarm selected. Deviation Band alarm selected. Deviation Band alarm selected. Deviation Band alarm Hysteresis Parameter (Default = 50.0°C) This parameter value can be adjusted from to 0 %500 of the device scale. Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) If temperature alarm is active, this parameter value can be adjusted from minimum value of device scale to temperature alarm set semaximum parameter value can be defined from minimum value of device scale. Temperature Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Temperature Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Process

5.1 Programming Mode Parameter List

Temperature Control Selection Parameter On/Off or PID (Default = 0)

LoFt	
	From -10 to 10°C, NTC,PTC, PT-100 (0°C, 100°C)
	From -18 to 18°F, NTC,PTC, PT-100 (32°F, 212°F) From -10.0 to 10.0°C, NTC,PTC, PT-100 (0.0°C,100.0°C)
	From -18.0 to 18.0 °F NTC, PTC, PT-100 (32.0 °F,212.0 °F)
	From -10 to 10°C ,ProNem Mini PMI-P (-20°C, 80°C)
	From -18 to 18°F, ProNem Mini PMI-P (-4°F, 176°F)
	From -10.0 to 10.0°C, ProNem Mini PMI-P (-20.0°C, 80.0°C)
	From -18.0 to 18.0°F, ProNem Mini PMI-P (-4.0°F, 176.0°F)
h55L	Humidity Sensor Scale Selection Parameter (Default = 0)
1122	Analogue input range is determined with this parameter.
	\square 010V $\stackrel{(1)}{==}$ or 020mA $\stackrel{(2)}{==}$
	$\frac{1}{2}$ 210V $\frac{(1)}{-1}$ or 420mA $\frac{(2)}{-1}$
	Note : [55] parameter ProNem Mini PMI-P type device are not observed.
	Hysteresis Parameter for Humidity (Default = 1)
hh5E	From 1 to 10 for Humidity Sensor (0%RH, 100%RH)
	From 0.1to 10.0 for Humidity Sensor (0.0%RH,100.0%RH)
	In ON/OFF control algorithm, Humidity Humidity
	value is tried to keep equal to set value by
	opening or closing the last control element. ON/OFF controlled system, temperature
	value oscillates continuously. Temperature
	value's oscillation period or amplitude
	around set value changes according to
	controlled system. For reducing oscillation Output
	period of temperature value, a threshold ON
	zone is formed below or around set value
	and this zone is named hysteresis. OFF
hSUL	Minimum Humidity Set Value Parameter (Default = Minimum Value of Device Scale) Humidity set value can not be lower than this value. This parameter value can be adjusted
	from minimum value of device scale to maximum Humidity set value parameter $\frac{1}{15}$ SULL
	Maximum Humidity Set Value Parameter (Default = Maximum Value of Device Scale)
hSUh	Humidity set value can not be greater than this value. This parameter value can be
	adjusted from minimum humidity set value parameter 5500 to maximum value of the
	device scale.
hoft	Humidity Sensor Offset Parameter (Default = 0)
,,,,,	From -10 to 10 for Humidity Sensor (0%RH, 100%RH)
	From -10.0 to 10.0 for Humidity Sensor (0.0%RH,100.0%RH)
Kaa	Humidity Decrease Amount Parameter for Door Opened Control (Default =off) To detect that the door is opened, the humidity must be reduced in the amount defined
	by the $\frac{Hdd}{Hdd}$ parameter in the time defined by the $\frac{HdC}{Hd}$ parameter.
	From -5 to 20 for Humidity Sensor (0%RH, 100%RH)
	From 5.0 to 20.0 for Humidity Sensor (0.0%RH,100.0%RH)
	If the value decrease button is pressed while the parameter value is 5 or 5.0, off is
	displayed and this function is disabled and the parameters [Hd[t]] and [Hddt] are not observed.
11.11-1	Humidity Decrease Amount Control Time Parameter for Door Opened Control
Hd[E	(Default = 20)
	To detect that the door is opened, the humidity must be reduced in the amount defined
	by the \[\(\text{\(\}}}}}}} \end{\(\text{\(\}}}}}}}} \end{\(\text{\(\text{\(\text{\) \}}}}}} \end{\(\text{\(\text{\(\text{\(\text{\(\text{\(\text{\) \}}}}}}}} \end{\(\text{\(\)}}}}}}} \end{\(\text{\) \}}}} \end{\(\text{\(\text{\(\text{\(\text{\(\text{\(\text{\) \}}}}}}}} \end{\(\text{\(\text{\) \}}}} \end{\(\text{\(\text{\) \}}}}} \end{\(\text{\(\text{\) \}}}}} \end{\(\text{\) \}}}} \end{\(\text{\(\text{\) \}}}}}} \end{\(\text{\(\text{\(\text{\) \end{\(\text{\(\text{\)}}}}}} \end{\(\text{\(\text{\) \}}}} \end{\(\text{\(\text{\)}}}} \end{\(\text{\) \end{\(\text{\) \}}}}}} \end{\(\text{\(\text{\) \}}}} \(\text{\(\text{\) \end{\(\text{\)
HddF	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60)
HddE	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time
HddE	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter.
HddE	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds.
Hadb (i)	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input.
Hddb i	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds.
Hddb i	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input.
Hode	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input.
Hode	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input.
Hode	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input.
(i)	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input.
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1 1814 1814 1814 1816 181	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hade parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V === Humidity Sensor Input. (2) It is valid, if the device type 0/420mA === Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted from 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter (Default = Maximum Value of Device Scale) if humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm Delay After Power On Parameter (Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter (Default = 2)
######################################	Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted from minimum value of device scale in humidity alarm set maximum parameter value can be adjusted from humidity alarm set minimum parameter value can be adjusted from 0 to 99 minutes. Humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay After Power On Parameter (Default = 0) Humidity Alarm Delay After Food Parameter (Default = 0) Humidity Alarm On Delay Time day After Power On Parameter (Default = 0) Humidity Alarm Desaulted From 0 to 99 minutes. Humidity Alarm Desaulted From 0 to 99 minutes. Humidity Alarm On Delay Time day After Power On Parameter (Default = 0) Humidity Alarm Desaulted From 0 to 99 minutes. Humidity Alarm It can be adjusted from 0 to 99 minutes. Humidity Alarm Desaulted From 0 to 99 minutes. Humidity Alarm Delay After Power On Parameter (Default = 0) Humidity Alarm It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter (Default = 2) This time must pass before the humidity out is turned on again after it is turned off, or
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######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hode's parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter value. hall hall hall hall hall hall hall hal
######################################	When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hodel parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidty alarm set maximum parameter value. [h RUL] Humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from humidity alarm set minimum parameter [h RUL] to maximum value of the device scale. Humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Humidity Alarm Delay After Power On Parameter (Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter (Default = 2) This time must pass before the humidity out is turned on again after it is turned off, or turned off again after it is turned on. It can be adjusted from 0 to 20 minutes. Buzzer Function Selection Parameter (Default = 0) Buzzer is active during temperature alarm
######################################	## Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the ##ddt parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V ── Humidity Sensor Input. (2) It is valid, if the device type 0/420mA ── Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0)
######################################	When it is detected that the door is opened, the humidity output is switched off for the time defined by the Hodel parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input. (2) It is valid, if the device type 0/420mA — Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidty alarm set maximum parameter value. [h RUL] Humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from humidity alarm set minimum parameter [h RUL] to maximum value of the device scale. Humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Humidity Alarm Delay After Power On Parameter (Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter (Default = 2) This time must pass before the humidity out is turned on again after it is turned off, or turned off again after it is turned on. It can be adjusted from 0 to 20 minutes. Buzzer Function Selection Parameter (Default = 0) Buzzer is active during temperature alarm
######################################	When it is detected that the door is opened, the humidity output is switched off for the time defined by the \(\frac{\beta d \cdot \text{N}}{\text{det}} \) parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter(Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter value is active, this parameter value can be adjusted from humidity alarm set minimum parameter \(\beta \cdot
######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the \(\frac{\beta d \cdot \text{b}}{\text{d} \cdot \text{D}} \) parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter (Default = Maximum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from humidity alarm set minimum parameter \(\frac{\beta \cdot \text{Default}}{\text{Default}} \) to maximum value of the device scale. Humidity Alarm On Delay Time Parameter(Default = 0) Humidity Alarm On Delay Time Parameter(Default = 0) Humidity Alarm Delay After Power On Parameter(Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter(Default = 2)
######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the [Idde] parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter(Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set Maximum Parameter(Default = Maximum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from humidity alarm set minimum parameter [hBU]. It to maximum value of the device scale. Humidity Alarm On Delay Time Parameter(Default = 0) Humidity Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter(Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter(Default = 2) <
######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the \(\frac{1}{2} \delta^2 \) parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA === Humidity Sensor Input. (2) It is valid, if the device type 0/420mA === Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted from the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from humidity alarm set minimum parameter \(\beta \beta \beta \). It is maximum value of the device scale. Humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay Time can be defined with this parameter. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter (Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter (Default = 2)
######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the *BddE* parameter.* This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter Pufault = Maximum Value of Device Scale) if humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay Time Parameter(Default = 0) Humidity Alarm Delay After Power On Parameter(Default = 0) Humidity Alarm Delay After Power On Parameter(Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter(Default = 2)
######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the #dd½ parameter. This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V = Humidity Sensor Input. (2) It is valid, if the device type 0/420mA = Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter/leful. hall h
######################################	Off Time of Humidity Output Parameter for Door Opened Control (Default = 60) When it is detected that the door is opened, the humidity output is switched off for the time defined by the *BddE* parameter.* This parameter can be between 10 seconds and 999 seconds. (1) It is valid, if the device type 0/210V == Humidity Sensor Input. (2) It is valid, if the device type 0/420mA == Humidity Sensor Input. 10 Humidity Alarm Hysteresis Parameter (Default = 0) This parameter value can be adjusted form 0 to %50 of the device scale. Humidity Alarm Set Minimum Parameter (Default = Minimum Value of Device Scale) if humidity alarm is active, this parameter value can be adjusted from minimum value of device scale to humidity alarm set maximum parameter Pufault = Maximum Value of Device Scale) if humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity Alarm Set Maximum Parameter (Default = Maximum Value of Device Scale) if humidity Alarm On Delay Time Parameter (Default = 0) Humidity Alarm On Delay Time Parameter(Default = 0) Humidity Alarm Delay After Power On Parameter(Default = 0) Humidity Alarm Delay After Power On Parameter(Default = 0) When power is first applied to the device, this time delay must be expired for activation of Humidity alarm. It can be adjusted from 0 to 99 minutes. Humidity Out Stop-Start and Start-Stop Delay Parameter(Default = 2)

If buzzer function selection parameter value $\boxed{b \cup F} = 0$, this parameter is not observed. Buzzer active time can be define with this parameter. It can be adjusted from 1 to 99 minutes. When this parameter is 1, if decrement button is pressed. ---- is observed. In this condition buzzer is active till buzzer silence button is pressed. Button Protection Parameter (Default = 0) There is no protection. Temperature set value can not be changed. Humidity set value can not be changed. Manual engine start is not available. Humidity set value and Temperature set value can not be changed Humidity set value can not be change and Manual engine start is not available. Temperature set value can not be change and Manual engine start is not available. Temperature set value and Humidity set value can not be changed. Also Manual engine start is not available Programming Mode Accessing Password (Default = 0) Programming Mode Accessing Password (Default = 0)
It is used for accessing to programming mode. It can be adjusted from 0 to 9999. If it is 0, password is not entered for accessing to the parameters. When the password screen is not set as "12", If the user enters '12' in password screen [£ h5£] and [hh5£] parameters are accessed and they can changed.