eneko®

ENECON PLUS

Automation User Manual

CE

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INTRODUCTION

This Automation User Manual has been prepared for the correct installation and use of the control systems of the units manufactured by ENEKO A.Ş. The Automation user manual contains description of the unit, components and basic informations and recommendations for proper and fail free operation. Please read the instructions and warnings given in this manual before starting installation, operation and maintenance works and keep this manual near the unit, within easy reach of service personnel.

Any damage, failure or hazard occurred because of use except this purpose is beyond the responsibility of manufacturer.

For technical service and questions, please contact with following information.

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PROHIBITED

- This unit has to be used under proper conditions according to its technical specification and design purpose. (Otherwise responsibility belongs to practitioner)
- Unauthorized personnel must not interfere in unit and/or must not use unoriginal spare parts. (Otherwise responsibility of failure that may occur belongs to practitioner)
- Do not use this control system other than the operating conditions specified in the installation and maintenance manual of the device. Do not use this control system in environments exposed to rain. (Otherwise, it may cause electric shocks or malfunction of the device)
- Do not use this unit in acid, alkali or organic solvent vapors, paint or other toxic gases, gases containing corrosive substances, or in environments with high concentrations of oily smoke. Failure to heed this warning may result not only in the control system malfunctioning, but also in fire, electric leakage, and electric shock.

ATTENTION

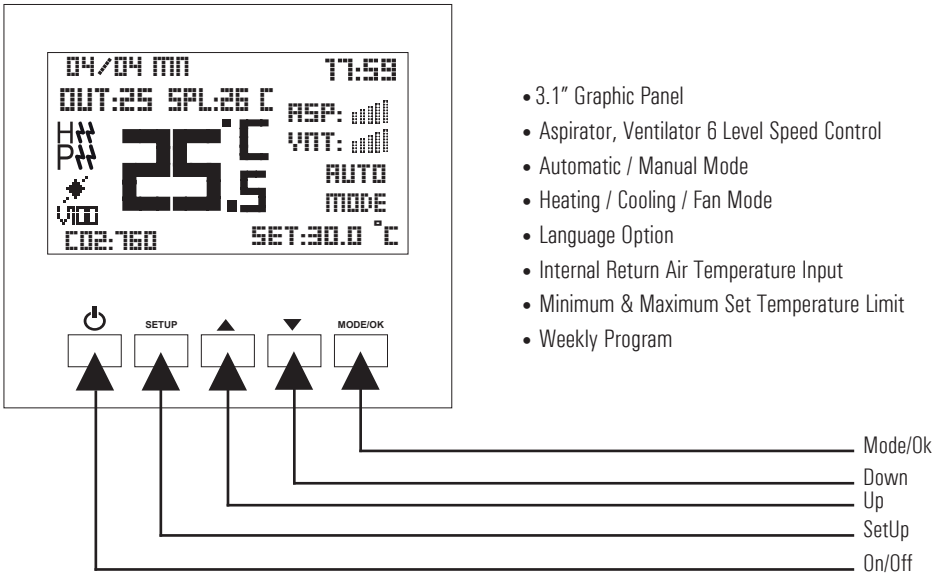
- The relevant connection diagram is on the cover of the panel.
- Use the designated electrical wires for the terminal board connections and connect the wires securely so that they will not be disconnected. (Failure to ensure proper connections may result in fire.)
- In the ducts passing through the building, in the parts of the ducts that are in contact with the building construction, make sure that the ducts are not in any electrical contact with the metal parts. (Electric leaks can cause fire and explosion.)
- Gloves should be worn while installation. (Failure to heed this warning may result in injury.)
- A dedicated circuit breaker must be installed at the origin of mains power supply. This circuit breaker must be provided with a means for locking (lock and key).
- The unit, the room control panel and cables must be at least 3 meters away from equipment or cables that create a high electromagnetic field. (Otherwise it may cause the device not to work.)
- During the replacement of spare parts, the layout of the panel must be maintained and the part must be assembled as it came from the factory.

This product must not be disassembled under any circumstances. Only authorized repair technicans are qualified to conduct disassembly and repairs.
(Failure to heed this warning may result in fire, electrical shock or injury.)

Connect the product properly to the ground. (Malfunctioning or power leaks can cause electrical shock.)

An isolator switch having minimum contact gap of 3 mm in all poles must be provided as a means of disconnecting the power supply.

NOTE: The installations, which is not available for installation and otomation manual, is out of guarantee.



- 3.1" Graphic Panel
- Aspirator, Ventilator 6 Level Speed Control
- Automatic / Manual Mode
- Heating / Cooling / Fan Mode
- Language Option
- Internal Return Air Temperature Input
- Minimum & Maximum Set Temperature Limit
- Weekly Program

Technical Specifications

Environmental Specifications	
Operating, Stock Temperature	0 ... +50°C (There should be no icing or condensation in the environment.)
Electrical Specifications	
Control	Digital Wall Panel (Max. 30 m) / Building Automation
Relay Current Capacity	Resistive 5A (Heater Contactor)
Supply	230V AC Outputs

CONTROL

Fan Speed Control Function

Control board has 7 different fan speeds. These fan speeds are set to specific values by default. The maximum fan speed is "boost". If it is desired to change fan speeds, set values can be changed by control panel and service menu parameters. If the device is on and in manual or fan mode, it is brought to the state that ASP or VNT is flashing by pressing **Mode/OK** button and ASP, VNT level is adjusted with ▲ and ▼ buttons.

Service parameter:

3 Aspirator Fan Manual Speed Value

4 Ventilator Fan Manual Speed Value

Mode Selection

• Mode selection can be made by pressing the **Mode/OK** button on the panel when the device is on.
• If the device is in Manual Heating or Automatic Heating, the set temperature is selected by pressing **Mode/OK.**
• In the manual heating and automatic heating mode, if the **Mode/OK** button is pressed while in the set temperature setting section, the next mode is entered directly.
• If the device is in Automatic mode, you can switch to the next mode by pressing **Mode/OK.**

Temperature Settings

• If the device is in manual or automatic heating mode when the device is on, the set temperature is set to flash by pressing the **Mode/OK** button and the set temperature is adjusted with the **Up** and **Down** buttons.
• If the device is in manual or automatic heating mode when the device is on, the set temperature is set to flash by pressing the **Mode/OK** button and the set temperature is adjusted with the **Up** and **Down** buttons.

Filter Function (Optional)

This function controls filter change time. There are 2 alternatives to control filters:
1. It records run time of the unit. Filter change time is set a particular run time by factory settings. When set time expires, control board gives an alert (red warning light flashes) for filter change.
Note: The instant filter time can be monitored from Parameter 115.
2. Filter change time can be controlled by pressure switch mechanically. With this method, when filter needs to be changed, control board gives an alert.

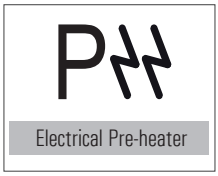
By-pass Function (Optional)

	By-pass is off.
	By-pass is on.

By-pass function only exists on units which have by-pass module. It is used when filtered fresh air is desired to be supplied to indoor without passing through heat exchanger (transition seasons). Control board decides whether by-pass module will be opened or not by controlling outdoor air temperature, return air temperature and set temperature values.
Note: By-pass status can be monitored from the 44th parameter of the service menu (0: Closed / 1: Open)

Electrical Pre-heater Function (Optional)

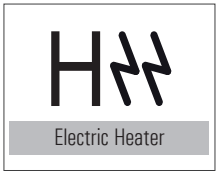
It is used to prevent icing inside the device in regions where the outside temperatures are very low. It works gradually depending on the outside temperature. The opening temperature of the preheater is set to 0 °C by default. It can be changed in the service menu.



Note1: If a pre-heater is connected, the terminals specified in the electrical diagram of the device can be used directly. In order to receive the electric preheater alarm, the connection must be made by removing the jumper at the relevant terminal.
Note2: Pre-heater step can be monitored from the 63th parameter of the service menu.
The heater thermostat information can be monitored from the 20th parameter.

Electric Heater Control Function (Optional)

Electric heater control function only exists on units which have duct type electric heater. This function controls electric heater that is used to increase temperature of supply air. It runs due to the return air temperature and set temperature values. 1 or 2 steps electric heater can be controlled.



Note1: If an electric heater is connected, the terminals specified in the electrical diagram of the device can be used directly. In order to receive the electric preheater alarm, the connection must be made by removing the jumper at the relevant terminal.
Note2: Electric heater step can be monitored from the 62th parameter of the service menu. The heater thermostat information can be monitored from the 20th parameter.

Heating Coil Function (Optional)

This function is used in units which have duct type hot water coils. It controls the hot water coil which helps to increase supply air temperature and works due to set and return air temperature. It can control 230V On/Off valve connected to water coil. It can also control proportionally.
Note: H100 / V100 indicates that 100% output is given to the heating coil.

Cooling Coil Function (Optional)

This function is used in units which have duct type cold water coils. It controls the cold water coil which helps to decrease supply air temperature and works due to set and return air temperature. It can control 230V On/Off valve connected to water coil. It can also control proportionally.
Note: C100 / V100 indicates that 100% output is given to the cooling coil.

Frost Protection Function (Optional)

Condensation occurs inside the unit where outdoor air temperature is below 0°C. Heat exchanger can be damaged if condensation water freezes inside. Control board changes fan speed periodically to protect freezing. When the temperature drops below the specified value, one or more of the following scenarios can be used;
1. The speed of the blower fan can be reduced (Parameter 518),
2. It will be active if there is a pre-heater (Parameter 513),
3. It will be active if there is a by-pass. (Parameter 160-153).

Bms Function (Optional)

BMS Function makes the unit to be monitored on a central automation system. Terminals on the control board can be used for the BMS connection.

Boost Function

It is used to provide for high amounts of exhaust and fresh air that will occur due to any effects that may occur in the environment (such as bad smell in the kitchen, using the bathroom and / or toilet) while the device is operating in any location. When **BOOST** mode is activated, the fans are fully operated. After working for the specified **BOOST** time, the device continues to operate normally.

1. **BOOST** terminals can be used as shown in the electrical diagram (optional)
2. It can be activated using parameter 117 of the service menu.

Note: BOOST time can be changed.

Fire Function (Optional)

There is a dry contact relay on the control board. The fire function is activated in case of on fire, if the dry contact relay is attached to fire system.

Note : Fire scenario can be selected from parameter 144 of service menu.

Sensor (VOD) (Optional)

It operates with CO_2, air quality or humidity sensor connection. Fan speeds are automatically changed according to the data from these sensors.

Note: The sensor value can be monitored from the service menu and panel screen:

27 Humidity Value
28 Air Quality Value
29 CO_2 Value parameters
38 CO_2 Set Value
39 Humidity Set Value

Note: If a CO_2 sensor will be added when the unit is in the field, the following parameters must be changed.

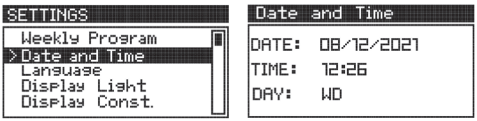
Parameter	Description	CO_2 Config. Value
381	Analog Input 1 Type Selection	1
321	Analog Input 1 Min Value	0
331	Analog Input 1 Max Value	2000
530	Humidity control Open/Close	0
38	CO_2 set value	0..2000
102	Full auto mod	1
529	CO_2 control type	2
114	Analog value screen	1

Note: If a humidity sensor will be added when the unit is in the field, the following parameters must be changed.

Parameter	Description	Hum. Config. Value
381	Analog Input 1 Type Selection	3

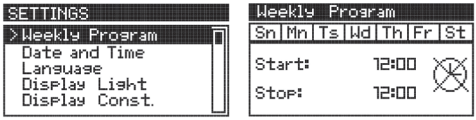
Parameter	Description	Hum. Config. Value
321	Analog Input 1 Min Value	25
331	Analog Input 1 Max Value	155
530	Humidity control Open/Close	1
39	Humidity set value	0..100
114	Analog value screen	3

Date and Time Settings



- While the device is on, press the Setup button on the panel for 2 seconds.
- Select Date Time Setting with the Down button and press the **Mode/OK** button.
- Select the day, month and year setting with the **Up and Down** button and proceed using the **Mode/OK** button.
- Select the hour and minute settings with the **Up and Down** buttons and proceed using the **Mode/OK** button.
- Select the day with the **Up and Down** button and scroll using the **Mode/OK** button and turn **On/Off** Exit with the button.

Weekly Program Settings



Weekly timer function is available on Panel. Unit can be programmed to operate automatically on certain periods of the week.

- While the device is on, press the Setup button for 2 seconds on the panel, while the weekly program is selected, press the **Mode/OK** button.
- Select the day to be adjusted by using the **Up and Down** buttons and the **Mode/OK** button.
- While Start is written, the start time of the device is set. Proceed with the **Mode/OK** button and set the end time of the device when Stop is written and save with the **Mode/OK** button.
- The same process steps are repeated for the other days, and the start and end times are adjusted as desired.
- After the weekly program is made, it is returned to the main screen with the **On/Off** button.

Note 1: If the start time is after the endtime, the device remains off during the selected day.
Note 2: If the start time and end time are the same, the weekly program application will not work for the selected day.
Note 3: If the device has a weekly program setting for the current day, the clock logo appears on the screen and operates with in the programmed working hours.
Note 4: If the device is programmed weekly for the current day and is within the programmed working hours, the clock stop logo appears on the screen.

: The weekly program is active and the device stops.

: The weekly program is active.

The Key Lock/Unlocked

- The key lock is unlocked by pressing the **Setup** and **Down** button for 5 seconds in the open position.
- If you want to close the key lock, the key lock is turned off by pressing **Setup** and **Down** again for 5 seconds.

Fault Reset Setting

If the fault code flashes in the upper corner of the screen and the fault is fixed, the fault is reset by pressing the **Setup** button and **Up** button at the same time while the screen is on.

Note: Before resetting the filter dirty alarm, the filter must be changed by the technical service.

FAULT LIST

Value		Binary	Explanation
E	1	0000.0000.0000.0001	Aspirator Fan Failure
E	2	0000.0000.0000.0010	Vantilator Fan Failure
E	4	0000.0000.0000.0100	Electrial Heater Failure
E	8	0000.0000.0000.1000	Aspirator Air Flow Error
E	16	0000.0000.0001.0000	Vantilatör Air Flow Error
E	32	0000.0000.0010.0000	Compressor Failure
E	64	0000.0000.0100.0000	Low Pressure
E	99	-	Communication Error
E	128	0000.0000.1000.0000	High Pressure
E	256	0000.0001.0000.0000	Fire Alarm
E	1024	0000.0100.0000.0000	VRF Error

WARNING LIST

Value		Binary	Explanation
W	1	0000.0000.0000.0001	Closed By Building Automation System
W	2	0000.0000.0000.0010	Boost Mode
W	4	0000.0000.0000.0100	Filter 1 Dirty
W	8	0000.0000.0000.1000	Filter 2 Dirty
W	16	0000.0000.0001.0000	Defrost Mode
W	32	0000.0000.0010.0000	Freezing Thermostat
W	64	0000.0000.0100.0000	Emergency
W	4096	1000.0000.0000.0000	Maintenance Alarm

SERVICE MENU USAGE

To log in to the user service menu:

• Press the **Up** and **Down** buttons simultaneously through the panel while the device is energized.
• On the screen you see, use the **Up** and **Down** buttons to enter the service password and press the **Mode/OK** button.
Note: The service password: "58"
• If the password is entered correctly, enter the parameter number you want to change on the display and press the **Mode/OK** button.
• After changing the parameter you want to change, register by pressing the **Mode/OK** button and go to the main menu with the **On/Off** button.
• Press the **On/Off** button to exit the service menu.

Changes to be made in the service setting menu must be made by the relevant technical personnel. All responsibility arising from these changes belongs to the person who changed the device parameter.

MODBUS RTU SETTINGS

To log in to the user service menu:

• Press the **Up** and **Down** buttons simultaneously through the panel while the device is energized.
• On the screen you see, use the **Up** and **Down** buttons to enter the service password and press the **Mode/OK** button.
• If the password is entered correctly, enter the parameter number you want to change on the display and press the **Mode/OK** button.
• After changing the parameter you want to change, register by pressing the **Mode/OK** button and go to the main menu with the **On/Off** button.
• For Modbus ID, the "PR" parameter is reached 111, and using the desired Modbus ID **Up** and **Down** buttons, set "ST" and press the **Mode/OK** button.
• For Modbus ID, the "PR" parameter is reached 112, and using the desired Modbus baudrate **Up** and **Down** buttons, set "ST" and press the **Mode/OK** button.
• Press the **On/Off** button to exit the service menu.

0: 1200 Bps
1: 2400 Bps
2: 4800 Bps
3: 9600 Bps
4: 19200 Bps
5: 38400 Bps
6: 57600 Bps

Note 1: All Modbus parameters are Holding register.
Note 2: All Modbus parameters are Signed Integer 16.

PLC Register				
40001	0	Device Open / Close Variable	0...1	0: Off 1: On
40002	1	Device Set Temperature	0...999	280 value means 28 ºC.
40003	2	Device Air Conditioning Mode	0...5	0: Fan Mode 1: Man. Heating 2: Man. Cooling 3: Auto Heating 4: Auto Cooling 5: Full Automatic Mode
40004	3	Aspirator Fan Manuel Speed Value	0...6	
40005	4	Ventilator Fan Manual Speed Value	0...6	
40007	6	Panel Ambient Temperature Value	-400...999	It is the Temperature Value on the Panel.
40008	7	Device Fresh Air Temperature Value	-400...999	It shows the temperature of the air drawn in the space.
40009	8	Device Supply Air Temperature Value	-400...999	If there is no temperature value available on the device, the temperature value is seen as “32767”.
40010	9	Outdoor Temperature Value	-400...999	
40011	10	Water Coil Temperature Value	-400...999	
40015	14	Bms Input	0...1	0: Device Operates Normally., 1: The device is turned off.
40016	15	Boost Input	0...1	0: It works normally., 1: Fans are working fully.
40017	16	Aspirator Fan Air Flow Information	0...1	Aspirator Fan Air Flow Switch information.
40018	17	Ventilator Fan Air Flow Information	0...1	Ventilator Fan Air Flow Switch information.
40019	18	Filter 1 Dirty Information	0...1	Filter 1 DPS State
40021	20	E. Heater Safety Thermostat Information	0...1	Safety Thermostat Information
40022	21	Aspirator Fan Thermal Fault Information	0...1	Aspirator Fan Fault Information
40023	22	Ventilator Fan Thermal Fault Information	0...1	Ventilator Fan Fault Information
40024	23	Emergency Stop Button Information	0...1	Emergency Stop Button Information
40025	24	Low Pressure Inlet Information	0...1	Low Pressure Input
40026	25	High Pressure Information	0...1	High Pressure Input
40027	26	Fire Information	0...1	Fire Entry
40028	27	Freezing Thermostat Information	0...1	Freezing Thermostat Information (In Water Coil application, the valve opens completely and the fans are completely turned off.)
40029	28	Compressor Thermal Failure Information	0...1	Compressor Thermic (If there is a compressor, the compressor turns off.)

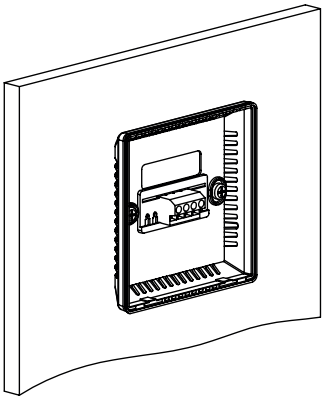
PLC Register				
40030	29	Phase Fail Information	0...1	Phase Failure Information (The device is completely turned off.)
40031	30	Heat Exchanger Freezing Thermostat	0...1	
40034	33	Humidity Value	0...1000	This value is adjusted according to the analog input calibration parameter between 321 and 340.
40035	34	Air Quality Value	0...1000	
40036	35	CO_2 Value	0...1000	
40037	36	Return Pressure Value	0...1000	
40038	37	Blowing Pressure Value	0...1000	
40039	38	Analog 1 Set Value		
40040	39	Analog 2 Set Value		
40044	43	Fresh Air / Suction Damper Motor	0...1	0: Off 1: On
40045	44	By-pass Damper Motor	0...1	0: Off 1: On
40046	45	Heating / Cooling Coil Valve Output	0...1	0: Off 1: On
40047	46	Heating Battery Open / Close Output	0...1	0: Off 1: On
40048	47	Cooling On / Off Battery Outlet	0...1	0: Off 1: On
40049	48	Compressor Output	0...1	0: Off 1: On
40050	49	Compressor 4 Way Valve Output	0...1	0: Off 1: On
40051	50	Device Operation Information Output	0...1	0: Off 1: On
40052	51	Device Fault Information Output	0...1	0: Off 1: On
40053	52	Device Warning Information Output	0...1	0: Off 1: On
40054	53	Aspirator Fan Run Output	0...1	0: Off 1: On
40055	54	Ventilator Fan Run Output	0...1	0: Off 1: On
40059	58	Rotary Outlet	0...1	0: Off 1: On
40061	60	Instant Aspirator Fan Output Value	0...6	Fan electric heater shows the instantaneous step value.
40062	61	Instant Ventilator Fan Output Value	0...6	
40063	62	Instant Electric Heater Value	0...3	
40064	63	Instant Pre Electric Heater Value	0...3	
40065	64	Aspirator Fan Analog Output Value	0...100	It shows the proportional output values.
40066	65	Ventilator Fan Analog Output Value	0...100	
40067	66	Proportional Heating Valve Output Value	0...100	
40068	67	Proportional Cooling Valve Output Value	0...100	
40069	68	Proportional Heating / Cooling Valve Output Value	0...100	
40070	69	Proportional By-pass Damper Output Value		

PLC Register				
40073	72	Start on Sunday Hour: Minutes	0...2359	The device operates between the start and end timeswithin a dayand the device switches off outside these hours. If the start and end times are equal, the device workscontinuouslyon that day. If the start time is more than the end time,the device iscompletelyturned off on the dayset. The set parameter is 1210 è Hour: Minute information is set as 12:10.
40074	73	Ending on Sunday Time: Minutes	0...2359	
40075	74	Start on Monday Hour: Minutes	0...2359	
40076	75	Ending on Monday Time: Minutes	0...2359	
40077	76	Start on Tuesday Hour: Minutes	0...2359	
40078	77	Ending on Tuesday Time: Minutes	0...2359	
40079	78	Start on Wednesday Hour: Minutes	0...2359	
40080	79	Ending on Wednesday Time: Minutes	0...2359	
40081	80	Start on Thursday Hour: Minutes	0...2359	
40082	81	Ending on Thursday Time: Minutes	0...2359	
40083	82	Start on Friday Hour: Minutes	0...2359	
40084	83	Ending on Friday Time: Minutes	0...2359	
40085	84	Start on Saturday Hour: Minutes	0...2359	
40086	85	Ending on Saturday Time: Minutes	0...2359	
40087	86	Instant Day	1...31	
40088	87	Instant Month	1...12	
40089	88	Instant Year	0...99	
40090	89	Instant Hour	0...23	
40091	90	Instant Minute	0...59	
40092	91	Instant Second	0...59	
40093	92	Instant Day of the Week	1...7	1: Sunday 2: Monday 3: Tuesday 4: Wednesday 5: Thursday 6: Friday 7: Saturday
40094	93	Instant Weekly Program Status	0...2	0: No Weekly Schedule 1: The device has a weekly program and the device is working. 2: The device isset up weekly weekly and the device is stopped.
40096	95	Alarm Value	0...99	
40097	96	Warning Value	0...99	
40104	103	Keylock	0...1	0: Key Lock Off, 1: Key Lock On
40105	104	Major Fault Information	0...1	0: No Fault, 1: The device has been completely shut down.
40106	105	Compressor Failure Information	0...1	0: No fault in the compressor 1: There has been a fault that turns off the compressor.

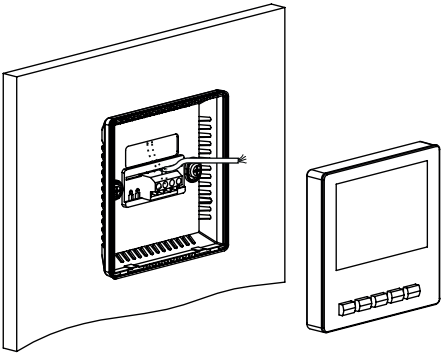
PLC Register				
40109	108	Fan Quantity	1...2	1: Single Fan, 2: Double Fan
40110	109	Fan Step Value	1...6	
40112	111	Modbus ID	1...254	
40113	112	Modbus Baudrate	0...7	
40114	113	Monitoring Temperature Value	0...3	0: Do not Show 1: Outdoor Temp. 2: Supply 3: Two Temp.
40115	114	Analog Input Value	0...3	0: Do not Show 1: CO_2 2: Air Quality 3: Humidity
40116	115	Filter Time Counter	0-9999 Hour	This counter increases on an hourly basis as long as the Ventilator Fan is running.
40117	116	Device Operating Mode Information	0-100	0: Device Off, 1: Damper Opens, 2: The Fan Turns On, 3: Main Loop, 4: Valve Closes 5: Fan Turns Off, 6: Freezing Condition 7: Defrost Status, 99: Fault Status (Waiting forReset)
40118	117	Activate Boost	0-1	0: Deactivated, 1: Active
40119	118	Control Temperature Type	0-3	0: Panel Temperature 1: According to the Return Air Temperature 2: According to the Supply Temperature 3: According to Outside Air Temperature
40145	144	Fire Scenrio	0-3	0: Fans Off 1: ASP Full VNT Off 2: ASP Off VNT Full 3: 2 Fan Full On
40146	145	Heating Cooling Hysterezis	0-999	
40149	148	Boost Max. Operating Time	0-999 Min.	Boost turns off automatically after this time.
40150	149	Limiting Variable of Heater According to Fan	0-1	
40151	150	Pre heater On Time	1-999 Sec.	Pre-heater on delay time
40152	151	Pre heater Off Time	1-999 Sec.	Pre-heater off delay time
40153	152	Pre-heater Hysterezis	1...100	E.g; A value of 100 means 10.0 ºC.
40154	153	Pre-heater Stage Ranges		
40155	154	Number of Pre-heater Stages	0-3	
40156	155	Heater On Time	1-999 Sec.	Heater on delay time

PLC Register				
40157	156	Heater Off Time	1-999 Sec.	Heater off delay time
40158	157	Heater Hysterezis	1...100	E.g; A value of 100 means 10.0 ºC.
40159	158	Heater Stage Intervals		
40160	159	Number of Heater Stages		
40161	160	Pre-heater Set Temperature Value	-400...999	
40162	161	By-pass Hysterezis	1...999	
40163	162	Rotary Hysterezis	1...999	
40164	163	P Value for Valve PI control		
40165	164	I Value for Valve PI control		
40174	173	Heating Coil Freeze Protection Minimum Temperature Value	-400...999	Battery temperature in the Heating Coil If the sensor is below this temperature value it goes into freeze protection mode.
40175	174	Heating Coil Freeze Protection Maximum Temperature Value	-400...999	Battery temperature in the Heating Coil sensor during freeze protection if this freezing above the temperature value exits the protection mode.
40176	175	Heat Exchanger Freeze Protection Minimum Temperature Value	-400...999	Heat exchanger temperature sensor on the heat exchanger if it goes below this temperature value, the heat exchanger enters the frost protection mode with the bypass damper.
40177	176	Heat Exchanger Freeze Protection Maximum Temperature Value	-400...999	Heat exchanger temperature sensor on the heat exchanger While in frost protection mode, if the temperature rises above this value, the heat exchanger exits the frost protection mode.
40178	177	Filter protection warning time limit	1...9999	If the filter counter time exceeds this value gives a filter warning on the screen.
40182	181	1 Universal input status	-400...999	If one of the device's universal input digital inputs is selected, 0 or 1 appears in the register. 0: On 1: Off
40183	182	2 Universal input status	-400...999	
40184	183	3 Universal input status	-400...999	
40185	184	4 Universal input status	-400...999	
40186	185	5 Universal input status	-400...999	If one of the device's universal input digital inputs is selected, 0 or 1 appears in the register. 0: On 1: Off
40187	186	6 Universal input status	-400...999	
40188	187	7 Universal input status	-400...999	
40189	188	8 Universal input status	-400...999	
40202	201	1 Digital output status	0...1	

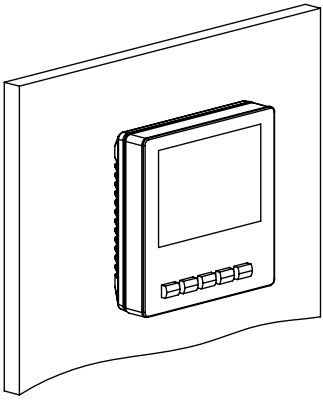
PLC Register				
40203	202	2 Digital output status	0...1	
40204	203	3 Digital output status	0...1	
40205	204	4 Digital output status	0...1	
40206	205	5 Digital output status	0...1	
40207	206	6 Digital output status	0...1	
40208	207	7 Digital output status	0...1	
40209	208	8 Digital output status	0...1	
40222	221	Analog Input 1 status	-9999...9999	
40232	231	Analog Output 1 status	-9999...9999	
40233	232	Analog Output 2 status	-9999...9999	
40234	233	Analog Output 3 status	-9999...9999	
40235	234	Analog Output 4 status	-9999...9999	
40262	261	Din 1Input Normally Open/Closed Selection	0...1	Universal inputs should be checked from the project and which input is used for what purpose.
40263	262	Din 2 Input Normally Open/Closed Selection		
40264	263	Din 3 Input Normally Open/Closed Selection		
40265	264	Din 4 Input Normally Open/Closed Selection		
40266	265	Din 5 Input Normally Open/Closed Selection		
40267	266	Din 6 Input Normally Open/Closed Selection		
40268	267	Din 7 Input Normally Open/Closed Selection		
40269	268	Din 8 Input Normally Open/Closed Selection		
40302	301	Din 1 Output Normally Open/Closed Selection	0...1	Digital outputs should be checked from the project and which input is used for what purpose.
40303	302	Din 2 Output Normally Open/Closed Selection		
40304	303	Din 3 Output Normally Open/Closed Selection		
40305	304	Din 4 Output Normally Open/Closed Selection		
40306	305	Din 5 Output Normally Open/Closed Selection		
40307	306	Din 6 Output Normally Open/Closed Selection		
40308	307	Din 7 Output Normally Open/Closed Selection		
40309	308	Din 8 Output Normally Open/Closed Selection		



• With the help of a screwdriver, the back side is removed by pushing the tabs at the bottom of the panel.
• It is fixed to the wall with screws from the gaps on the plate.
• Bolts in Ø4X30 sizes and plastic dowels in Ø6 sizes should be used.



• The cable carried through the wall is passed through the cable gap on the back.
• Terminal connections related to the cable passed are made.
• First, the upper tabs on the front are replaced on the back.
• Afterwards, pressure is applied to the front of the panel so that the lower tabs on the front face are inserted into their places on the back.



• The panel will be energized while the device is operating. Otherwise, the cable connections should be checked.

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