

CONTROL PANEL



SE1 Vento Eco

USER'S MANUAL





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This user's manual is a main operating document intended for technical, maintenance, and operating staff.

The manual contains information about purpose, technical details, operating principle, design, and installation of the SE1 Vento Eco unit and all its modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

SAFETY REQUIREMENTS

This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the unit by a person responsible for their safety. Children should be supervised to ensure that they do not play with the unit.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Cleaning and user maintenance shall not be done by children without supervision. Children shall not play with the appliance.

Ensure that the unit is switched off from the supply mains before removing the guard.

All operations described in this manual must be performed by qualified personnel only, properly trained and qualified to install, make electrical connections and maintain ventilation units.

Do not attempt to install the product, connect it to the mains, or perform maintenance yourself. This is unsafe and impossible without special knowledge.

Disconnect the power supply prior to any operations with the unit.

All user's manual requirements as well as the provisions of all the applicable local and national construction, electrical, and technical norms and standards must be observed when installing and operating the unit.

Disconnect the unit from the power supply prior to any connection, servicing, maintenance, and repair operations.



While mounting the unit, avoid compression of the casing!

Misuse of the unit and any unauthorised modifications are not allowed.

Do not expose the unit to adverse atmospheric agents (rain, sun, etc.).

Do not use the unit in a hazardous or explosive environment containing spirits, gasoline, insecticides, etc.

Do not sit on the unit and do not put objects on it.

The information in this user's manual was correct at the time of the document's preparation. The Company reserves the right to modify the technical characteristics, design, or configuration of its products at any time in order to incorporate the latest technological developments.

Never touch the unit with wet or damp hands.

Never touch the unit when barefoot.

BEFORE INSTALLING ADDITIONAL EXTERNAL DEVICES, READ THE APPROPRIATE USER MANUALS.



THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE.

DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE.



PURPOSE

The wall-mounted sensor control panel is designed to be used as a part of the **Vento Eco** domestic air handling unit control system. The control panel is a component part and is not designed for independent operation. The unit is rated for continuous operation.

DELIVERY SET

Name	Number
Control panel	1 pc.
User's manual	1 pc.
Packing box	1 pc.

TECHNICAL DATA

 Unit voltage DC [V]
 12-32

 Current per 24 V DC [A]
 0,1

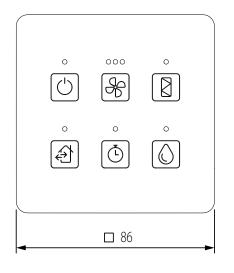
 Ambient temp. [°C]
 +10...+45

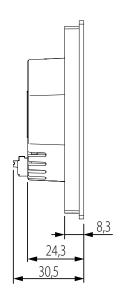
 Ambient humidity range [%]
 10-80 (no cond.)

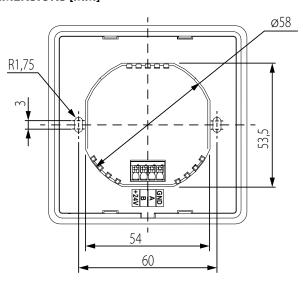
 Weight [g]
 60

 Protection class
 IP20

OVERALL AND CONNECTING DIMENSIONS [MM]







INSTALLATION AND CONNECTION



CHECK THAT THE UNIT IS DISCONNECTED FROM POWER SUPPLY PRIOR TO ANY OPERATIONS!



DO NOT LAY THE CABLE IN CLOSE PROXIMITY TO THE CONTROL PANEL CABLE! WHILE ROUTING THE CONTROL PANEL CABLE DO NOT COIL THE EXTRA LENGTH.

The SE1 Vento Eco control panel is positioned based on the general project draft of the Vento Eco ventilator control system for a specific facility.

Caution! The control panel must be reliably secured in the working position on a smooth surface.

The design and structure of the Vento Eco ventilator control system is outlined in the CT1 Vento Eco controller's user manual.

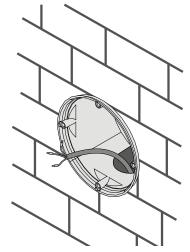
The control panel is connected to the CT1 Vento Eco controller by means of a **J-Y(St)Y 2x2x0.8** signal wire. The wiring length of the line connecting the SE1 Vento Eco panel to the CT1 Vento Eco controller must not exceed 100 m.

Mounting sequence

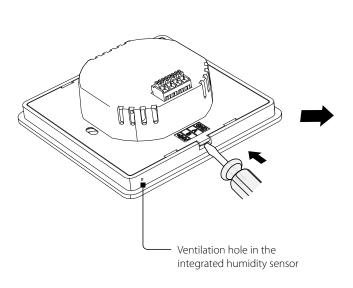
1. Prepare a niche in the wall for the mounting box.

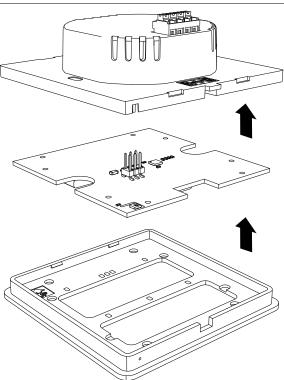
Route the wire to the site where the control panel is secured. Fixed wiring must be routed in the building's walls.

Install the mounting box.



2. Use a screwdriver to detach the panel casing's parts by carefully pressing the latch on the side of the casing.



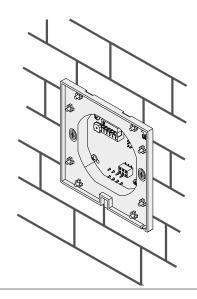




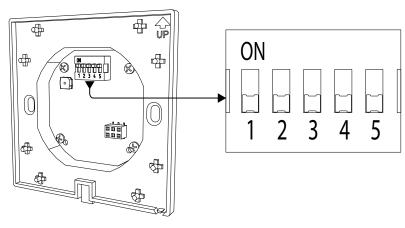
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3. Connect the cable to the terminal on the back side of the casing following the label on the panel casing.

Use the holes to attach the casing to the mounting box by means of screws. The screws that connect the control panel to the mounting box are included in the delivery set.



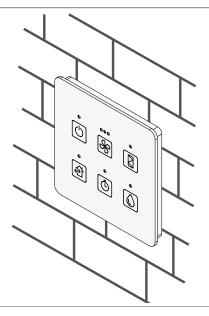
4. Set up the control panel using DIP switches (see description in the "Control" section).



5. Fix the display on the casing by pressing on it and latching it.

Caution! Each time the control panel is turned on, the buttons on the panel's touchscreen are set up automatically.

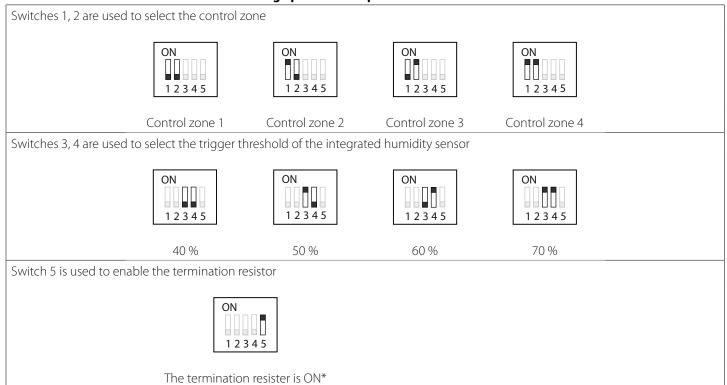
Turn on the control system after installing the display on the panel's casing only.





CONTROL

Setting up the control panel via a DIP switch

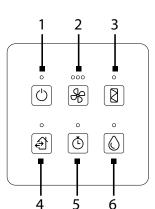


^{*}Turn on the termination resistor if the control panel is connected first or last in the RS-485 bus.



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The description of functions of the control panel



- 1 Turning on / off the group of controllers
- **2** Subsequent speed switching
- 3 Filter timer reset button
- **4** Mode switching: "Regeneration" and "Ventilation"
- **5** Enabling / disabling the timers
- **6** Enabling / disabling the integrated humidity sensor

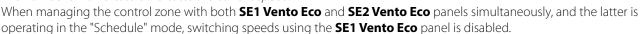


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The ventilation system is swtched on by tapping the button.

If the indicator is lit, the ventilation system is ON.





When the speed is set to 0 on the **SE2 Vento Eco** panel by schedule, all the three LED lights on the **SE1 Vento Eco** go out.

Initially the button is inactive. After the filter maintenance timer runs out (90 days), the button becomes active.

The indicator lights up continuously.

The filters require cleaning or replacing. The filter replacement timer must be reset after maintenance. To reset the the timer, tap the filter button. *The indicator goes out.*

When the button is tapped, the ventilators in the control area of this panel switch between **Ventilation** and **Regeneration** modes.

If the indicator is lit, the system is operating in the Regeneration mode.

When the button is tapped, the ventilator timers in the control zone managed by this panel are enabled / disabled.

When tapped once, a 4-hour timer is activated for the ventilators to operate in the **Ventilation** mode at maximum speed.

When tapped twice, an 8-hour timer is activated for the ventilators to operate in the **Ventilation** mode at minimum speed.

When tapped three times, the timers are deactivated, and the ventilators return to their original settings.

During the timer's operation, the button LED stays continuously lit.

During the timers' operation the system does not respond to triggered sensors.

When the timer expires, the settings are reset as before the timer was turned on.

The timer can also be stopped using the **ON/OFF** button.



The button enables / disables the integrated humidity sensor.

When the integrated humidity sensor is activated with the button, the ventilation system starts operating so that when the sensor is triggered, all the ventilators switch to maximum speed in the **Ventilation** mode.

After the air humidity in the room where the control panel is installed drops below the sensor trigger level, the system automatically returns to the settings that were in place before the sensor was triggered.



The in-built sensor trigger level settings are given in the **"Setting up the control panel via a DIP switch"** section. When the humidity sensor is activated, the button's LED light is constantly lit; if the sensor is triggered, the LED flashes.

When the in-built sensor is active, the system does not respond to triggered the relay sensor connected to the CT1 Vento Eco panel.

If the humidity sensor is disabled, tap the button again.

If there is no power supply, the preset parameters are saved in non-volatile random-access memory of the control panel.

TROUBLESHOOTING

Trouble	Possible reasons	Troubleshooting	
	Power supply units are offline.	Make sure the power supply units are connected correctly, otherwise troubleshoot a connection error.	
The system does not run.	There is no constant voltage of +24V at the outputs of the power supply units.	Disconnect the system from power supply. Replace the power supply units. Restart the system.	
Automatic circuit breaker tripping after the system start-up.	Overcurrent as a result of short circuit in the system's elements.	Turn off the system. Contact the Seller.	
The fans are not rotating after the control panels are turned on.	Inconsistent settings for assigning control panels and controllers to the appropriate control zones	Turn off the system. Reconfigure the settings correctly	
	The fan or casing screw connection is loose.	Tighten the screw connection of the fan or the casing against stop.	
turned on.	Connection errors of the system elements	Turn off the system. Troubleshoot the connection errors. Restart the system.	
After the panel is finally fixed to the wall, the touchscreen buttons do not work	The sensors were calibrated when the panel was not in the working position.	Turn off the system. Keep it off for a few minutes and restart it.	
The system's operation is	Wrong wire cross-section is selected	Connect the elements following the recommendations on the use of cables between units	
unstable.	The connection cables are not routed correctly		

If troubleshooting steps have failed, or if the fault is not described in the table, contact the Seller of the product.

STORAGE AND TRANSPORTATION REGULATIONS

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range from +5 °C to + 40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors and chemical mixtures provoking corrosion, insulation, and sealing deformation.
- Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
- Follow the handling requirements applicable for the particular type of cargo.
- The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation and mechanical damage. The unit must be transported only in the working position.
- Avoid sharp blows, scratches, or rough handling during loading and unloading.
- Prior to the initial power-up after transportation at low temperatures, allow the unit to warm up at operating temperature for at least 3-4 hours.



MANUFACTURER'S WARRANTY

The product is in compliance with EU norms and standards on low voltage guidelines and electromagnetic compatibility. We hereby declare that the product complies with the provisions of Electromagnetic Compatibility (EMC) Directive 2014/30/EU of the European Parliament and of the Council, Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council and CE-marking Council Directive 93/68/EEC. This certificate is issued following test carried out on samples of the product referred to above.

The manufacturer hereby warrants normal operation of the unit for 24 months after the retail sale date provided the user's observance of the transportation, storage, installation, and operation regulations. Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation, the user is entitled to get all the faults eliminated by the manufacturer by means of warranty repair at the factory free of charge. The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation. The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

The warranty repair does not include:

- · routine technical maintenance
- · unit installation/dismantling
- · unit setup

To benefit from warranty repair, the user must provide the unit, the user's manual with the purchase date stamp, and the payment paperwork certifying the purchase. The unit model must comply with the one stated in the user's manual. Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismounted by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal components caused by the user.
- Redesign or engineering changes to the unit.
- Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- · Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in power mains.
- Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- Violation of the unit transportation regulations by the user.
- Violation of the unit storage regulations by the user.
- Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- Missing payment paperwork certifying the unit purchase.



FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT



USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION
OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE
PURCHASE DATE STAMP



CENTUCATE	E ACCEPTANCE	
CERTIFICATE O	F ACCEPTANCE	
Unit Type	Control panel	
Model		
Serial Number		
Manufacture Date		
Quality Inspector's Stamp		
SELLER INFORM	MATION	
Seller		garanta da
Address		
Phone Number		$\mathcal{A} = \mathcal{A}$
E-mail		
Purchase Date		1
This is to certify acceptance acknowledged and accepted.	of the complete unit delivery with the user's manual. The warranty terms are	$\mathcal{N} = \mathcal{N}$
Customer's Signature		Seller's Stamp
INSTALLATION		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Thein the present user's manual	unit is installed pursuant to the requirements stated al.	
Company name		
Address		1
Phone Number		
Installation Technician's Full Name		\setminus \angle
Installation Date:	Signature:	The second section of the sect
	accordance with the provisions of all the applicable local and national construction, and standards. The unit operates normally as intended by the manufacturer.	Installation Stamp
Signature:		
WARRANTY CA	RD	
Unit Type	Control panel	ger en
Model		
Serial Number		1 \ \ \ \ \
Manufacture Date		1
Purchase Date		Δ



Warranty Period

Seller

Seller's Stamp





