

Remote controller with touch screen

Description

1. Touch screen display.
2. Supply air temperature setting and display.
3. Fan speed setting and display.
4. Plate heat exchanger antifrost function display.
5. Alarm signals display.
6. Air temperature data display from connected sensors.
7. Settings and modes display on LCD.
8. Surface mounting.
9. Remote controller connection with connectors. Cable length – 13m.

Technical data

Supply voltage [VDC]	15..30
Data transfer	RS 485
Dimensions (WxHxL) [mm]	104x93x17.5
Protection class	IP30
Ambient temperature [°C]	30
Ambient humidity [%]	90



Displays, buttons and settings

Display, buttons

POWER

FAN

CLOCK

Description

Remote control ON/OFF. Return back from programming mode and sensors menu.

Fan speed indication and setting: LOW, MED, HIGH, nO - fan off.
For „ECO“ controller – speed (%) and temperature (°C) setting.

Time and date setting.

	RESET	Event resetting in program mode. System resetting in sensors data display mode.
	PROG	Program mode, options.
	SCREEN	Temperature sensors data indication.setting
	EDIT 	Maximum level of CO ₂ setting.
	 nC	Plate heat exchanger antifrost function active. Remote control (no connection with AHU).
	FILTER Room Heating Cooling	Dirty filter, expired filter timer or signal from differential pressure switch. AHU control - based on the extracted air temperature. AHU in heating mode. AHU in cooling mode.
InFo :	00h	Day time limit expired to stop AHU. It's impossible to stop AHU.
	2	AHU in STOP mode by external signal.
	3	Critical temperature of the exhaust air.
	4	Critical temperature of the supply air (lower than 16,5°C).
	5	Warning Psi, unit will not work according to set parameters.
	6	Low humidity level.
	7	High CO ₂ level. Exceeded the permissible level of CO ₂ .
	8	Humidity sensor error.
	9	Night Cool.
	Eco	AHU works in ECO mode (lowest fan speed and lowest temperature settings). Activated by an external „Stop“ signal.
	11	Activated by an external „Boost“ signal.
	12	AHU in „Standby“ mode.
	<u>Alarm</u>	
	A1	External alarm signal (fire alarm).
	A2	Heat exchanger icing (differential pressure switch signal).
	A3	Signal from differential filter pressure switch.
	A4	Speed autotransformer overheating.
	A5	Critical temperature of water (broken water pump or water damper actuator, cold water).
	A6	Heater overheating.
	A7	Low AHU supply voltage.
	A8	Common external input „Alarm“.
	A9	Rotor fault (rotor motor, belt, belt guard).
	J1	Supply air temperature sensor fault.

J2
J3
J4
J5
J12

Water temperature sensor fault.
Outside air temperature sensor fault.
Extract air temperature sensor fault.
Exhaust air temperature sensor fault.
Current converter (pressure, CO₂).

Settings

Process

Fan speed

For fan speed setting press "FAN" till required speed will be indicated: LOW, MED, HIGH.

Setpoint

Supply air temperature can be changed with buttons in lower lever than temperature setpoint.

Time and date

1. Press **CLOCK** to reach setting.
2. Press **▲ ▼** to set year and press **CLOCK** again to confirm.
3. Press **▲ ▼** to set month and press **CLOCK** again to confirm.
4. Press **▲ ▼** to set day and press **CLOCK** again to confirm.
5. Press **▲ ▼** to set hour and press **CLOCK** again to confirm.
6. Press **▲ ▼** to set minutes and press **CLOCK** again to confirm.

Programming

1. Press **PROG** to reach events settings, week day will flash.
If **POWER** will be pressed, program mode will switch OFF.
2. Press **▲ ▼** to select week day.
If **RESET** will be pressed, events of selected day will be deleted.
If **POWER** will be pressed, program mode will switch OFF, events will be saved.
Press **PROG**, event number will flash.
3. Press **▲ ▼** to select event.
If **POWER** will be pressed, display will switch to week day selection.
Press **PROG**, start time of selected event will flash.
4. Press **▲ ▼** to set hour.
If hour is set to **hh** and **PROG** is pressed, selected event will be deleted.
Press **PROG**, event start minutes will flash.
5. Press **▲ ▼** to set minutes.
Press **PROG**, temperature setpoint and fan speed of selected event will flash.
6. Press **▲ ▼** to set temperature.



7. Press **FAN** to select fan speed. If no speed selected, “nO” will be displayed instead temperature setpoint.
Press **PROG** and select next event.
For 24 hours 4 events can be setted.
If no buttons are pressed during 2 minutes, program menu will be switched OFF.

Temperature sensors data indication

1. Press **PROG** and after **SCREEN** to reach temperature sensors data display.
2. Press ▲ ▼ to select sensors, which are displayed instead time.

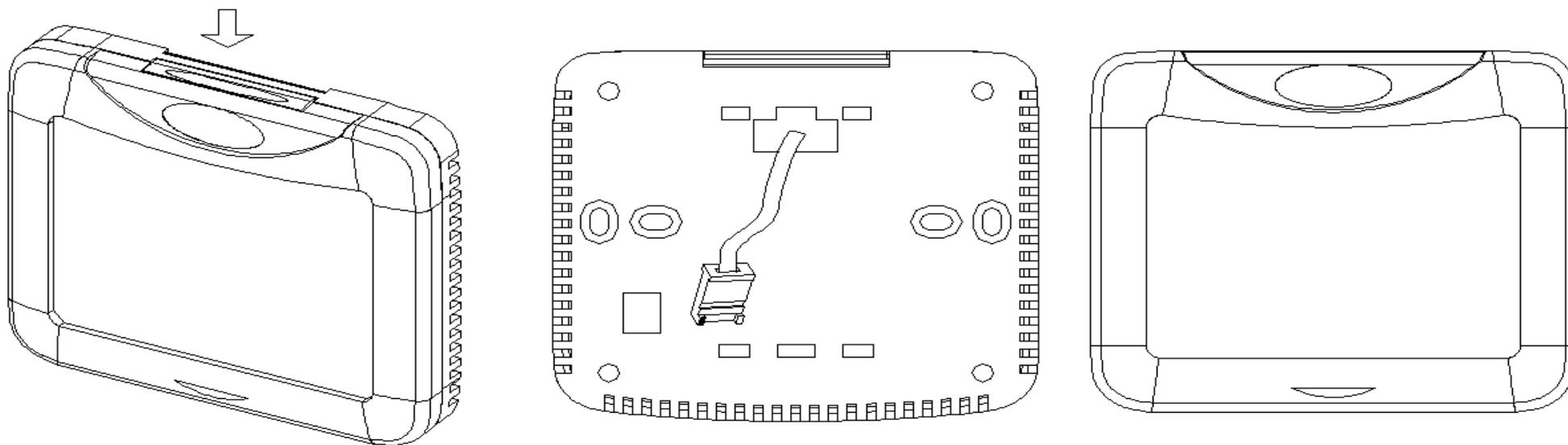
Sensors marking:

- “J1” – supply air temperature, °C
 - “J2” – return water temperature, °C
 - “J3” – outside air temperature, °C
 - “J4” – extract air temperature, °C
 - “J5” – exhaust air temperature, °C
 - “J6” – extract air humidity, %
 - “J7” – heat exchanger efficiency by exhaust air temperature, %
 - “J8” – room air temperature, °C
 - “J9” – preheater temperature, °C
 - “J10” – supply air humidity, %
 - “J11” – outside air humidity, %
 - “J12” – supply air pressure, %, Pa/10
 - “J13” – extract air pressure, %, Pa/10
 - “J14” – CO₂ in extract air, %, ppm/10
 - “J15” – heating, %
 - “J16” – cooling, %
 - “J17” – By pass, %
3. Press **POWER**, to leave indication mode.
If no buttons are pressed during 2 minutes, indication mode will be switched OFF.



Installation

1. Install connection cable between AHU and remote control. **Attention: blue connector is for remote control, modular connector is for AHU.**
2. Open remote control and pass through base part cable.
3. Fix base part to the wall.
4. Connect cable to remote control.
5. Close remote control.



Transporting and storing

All products are packed by producer for normal transporting conditions. For unloading and storing use proper lifter to prevent product damage and employees injuries. Do not lift product by power supply cable, connection box. Avoid impacts and impact loads.

Until final installation store products in dry place with humidity not more 70% (20°C), average ambient temperature must be 5-40°C. Storing place must be covered from water and dirt.

Avoid long term storing. It is not recommended to store products more then 1 (one) year.

Warranty

1. Manufacture declare 1 year warranty term from the date of manufacturers invoice. Warranty is applied in case if all requirements of transporting, storing, installation and electrical connection are fulfilled.
2. In case of damaged or faulty product during warranty term customer must inform producer in 5 days and deliver product to manufacture as soon as possible at customer's costs. In other case warranty is not valid.
3. Manufacture is not responsible for damages which occur during transportation or installation.

Producer reserves the right to change technical data