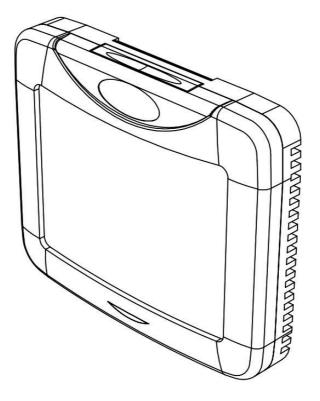
Programmable touch screen remote controller

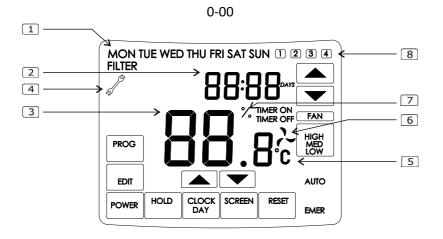
TPC V2



User's manual

EN

Symbols of TPC panel screen



- 1 Day of the week
- 2 Date / time
- 3 Set room inlet air temperature
- 4 Air handling unit needs service maintenance
- 5 Temperature indication
- 6 Fan indication

HOLD

FAN

- 7 Fan speed set indication
- 8 Programmed event indication

Air handling unit switch on / off POWER

Press to program event of the day EDIT

PROG

Confirm the programmed event

Active external stop signal indication

CLOCK Overview of current date and time DAY

Switching between menu windows

Cancel the day event programming / reset the filter timer / RESET

alarm confirmation / system restart

Selection of fan rotation speed: HIGH MED

LOW - minimum, MED - medium, HIGH - maximum

AUTO Auto mode indication

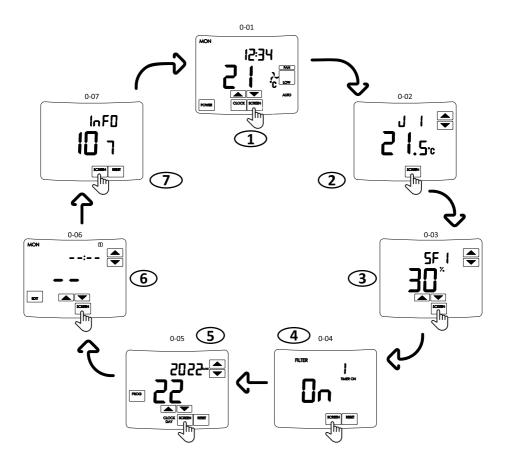




Control is implemented by touch screen. Appropriate buttons are shown in the different menu windows. Always press buttons using finger tips. Control device can be damaged by sharp objects such as pencil, pen, etc.

Menu windows

If you want to switch the Menu window, press $\overline{\mbox{\tiny SCREEN}}$ button



1

General window of air handling unit control



Switching on/off the air handling unit.

Press POWER and hold for 2 sec. to turn the air handling unit on.



Press POWER and hold for 2 sec. to turn the air handling unit off.



Setting fan speed.

Select the rotational speed of fans by repeatedly pressing Low MED, or HIGH

If you select speed, air handling unit will be stopped.



Setting temperature.

Set room inlet air temperature by pressing



AUTO mode indication.

Sign AUTO indicates that at least one event of weekly scheduler is programmed and air handling unit will work by weekly scheduler program. If you want to switch off AUTO mode, delete all programmed events (read 6th chapter)



Activation of BOOST functionality.

Press , MED , or HIGH and hold for 2 sec. to activate BOOST functionality.

Blinking LOW, MED, or HIGH indicates that BOOST is active. Fans rotational speed depends on settings set SF4 (supply air fan) and EF4 (extract air fan) (Menu window 3)

To switch off BOOST functionality, press blinking LOW, MED, or HIGH.



Overview of clock and date.

You can check current time and date by repeatedly pressing



٦ | ١



Indication of active external Stop signal.

When external Stop signal is active, blinking | HOLD | symbol appears on the screen.

2 Sensor data window



Overview of sensor data.

Quantity of active sensors depends on air handling unit configuration.

Press 🔷 to

to display sensor data.

- J1 Supply air temperature sensor
- J2 Returning water (from water heater) temperature sensor
- J3 Outside air temperature sensor
- J4 Extract air temperature sensor
- J5 Exhaust air temperature sensor
- J6 Extract air humidity sensor
- J7 Extract air humidity sensor (when controller is PRV)
- J8 Supply air pressure sensor (when controller is MCB)
- J9 Extract air pressure sensor (when controller is MCB)
- J10 CO2 sensor

3 Fan speed setting window



Setting fan speed.

Both supply and extract air fan speed setting for LOW, MED, HIGH and BOOST modes.



to select which fan speed you want to set .

- SF1 Supply air fan minimum speed (LOW)
- SF2 Supply air fan medium speed (MED)
- SF3 Supply air fan maximum speed (HIGH)
- SF4 Supply air fan high speed (BOOST)
- EF1 Extract air fan minimum speed (LOW)
- EF2 Extract air fan medium speed (MED)
- EF3 Extract air fan maximum speed (HIGH) EF4 - Extract air fan high speed (BOOST)

4 Polluted filter timer window



Indication of polluted filter timer.

Depends on software version, polluted filter timer by factory default can be activated or deactiveted. Activation or deactivation of this feature can be done only by authorized service.

If this function is not activated, screen shows FILTER TIMER OFF.



If this function is activated, screen shows FILTER TIMER ON and timer counts air handling unit working hours.



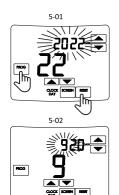
If set setpoint is reached (by default : when controller is PRV - 2160h., when controller is MCB - 90 days) the symbols FILTER and apear. This means, it is necessary to change the filters

to ensure proper air ventilation work.

Once the filters are changed, press RESET (see pic. 4-02) and hold for 2 sec. to reset the timer.*

*If controller is PRV, timer counts air handling unit working hours from 0 to setpoint. If controller is MCB, timer counts air handling unit working days from setpoint to 0.

5 Date (YYYY,MM,DD) and time (hh:mm) setting window



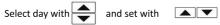
Date and time setting.

Select year with and set with

If you want to confirm, press PROG, if you want to cancel, press RESET.



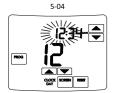




If you want to confirm, press

, if you want to cancel, press







If you want to confirm, press









If you want to confirm, press

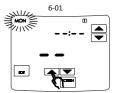


, if you want to cancel, press



6 Auto mode weekly scheduler programing window

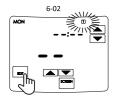
Auto mode weekly scheduler programming.



Up to 4 separately programmed events for every day of the week can be stored in memory of the TPC remote. Exact start time, fan rotation speed and preferred inlet air temperature setting for every event of the day can be programmed.

Stored event lasts till the next programmed event's start .

If you want to start programming your weekly scheduler, first of all select weekday of the event with



than go to event selection with select one of four events of this day with and press



Select event start hour with and set with



Select event start minutes with and set with .



Select event inlet air temperature with and set with .



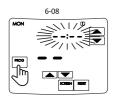
Select event fan speed by repeatedly pressing FAN LOW MED Or HIGH

If you select zero" speed, air handling unit will be stopped.



Once you did event selections, press $^{\text{PROG}}$ to confirm, or if you want to cancel, press $^{\text{RESET}}$.

If you wish to continue programming of events, repeat steps from 6-01 to 6-07 .



If you wish to delete the event, select --:-- in the hour selection step (pic. 6-03) and press $^{\text{PROG}}$ to confirm .

7 Software version window

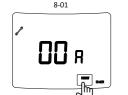


Software version.

Software version is displied in this window.

System restart.

If you want to restart the system, press and hold for 2 sec.



Active fault window

Blinking screen indicates fault of air handling unit. Fault code describes the reason of the fault. Disconnect air handling unit from electrical network (if needed) and remove the fault or it's reason.

Once the fault is removed, press RESET and hold for 2 sec.

Possible fault codes and definitions, when controller is PRV:

- 00 External emergency fire alarm signal
- 01 Supply air temperature sensor fault
- 02 Extract air temperature sensor fault
- 03 Exhaust air temperature sensor fault
- 04 Outside air temperature sensor fault
- 05 Extract air humidity sensor fault
- 06 Filter polution signal
- 07 Supply or extract air fan fault
- 08 Electrical heater's overheating signal
- 09 Plate heat exchanger's freezing signal
- 10 Water heater's anti freeze protection
- 11 Rotor heat exchanger fault
- nC No connection between remote and air handling unit

Possible fault codes and definitions, when controller is MCB:

- 01 Broken rotor belt
- 02 Fire place protection is activated
- 03 Dryness protection activated
- 04 Anti-frost protection of plate heat exchanger is activated
- 05 Anti-frost protection of plate heat exchanger. The system is off.
- 06 Anti-frost protection of plate heat exchanger (pressure relay)
- 07 Anti-frost protection of water heater. The system is off.
- 08 Supply air temperature is too low
- 09 Supply air temperature is too high
- 10 Supply air temperature is too low. The system is off.
- 11 Supply air temperature is too high. The system is off.
- 12 Please change the supply air filter (pressure relay).
- 13 Please change the extract air filter (pressure relay).

- 14 Please change the extract and supply air filters.
- 15 Power supply failure. Check F1 fuse.
- 16 Supply air temperature sensor failure. Emergency mode
- 17 Extract air temperature sensor failure. Emergency mode
- 18 Exhaust air temperature sensor failure. Emergency mode
- 19 Fresh air temperature sensor failure. Emergency mode
- 20 Hydronic heater water temperature sensor failure. Emergency mode
- 21 Hydronic pre-heater water temperature sensor failure. Emergency mode
- 22 Hydronic cooler water temperature sensor failure. Emergency mode
- 23 Control box temperature sensor failure. Emergency mode
- 24 Supply air temperature sensor failure. The system is off.
- 25 Extract air temperature sensor failure. The system is off.
- 26 Exhaust air temperature sensor failure. The system is off.
- 27 Fresh air temperature sensor failure. The system is off.
 - 28 Hydronic heater water temperature sensor failure. The system is off.
 - 29 Hydronic pre-heater water temperature sensor failure. The system is off.
 - 30 Hydronic cooler water temperature sensor failure. The system is off.
 - 31 Control box temperature sensor failure. The system is off.
 - 32 Fire protection damper test is successful
 - 33 Fire protection damper test is unsuccessful
 - 34 Heater manual protection. The system is off 35 - Heater automatic protection
 - 36 Pre-heater manual protection. The system is off.
- 37 Pre-heater automatic protection
- 38 Supply air fan protection
- 39 Extract air fan protection
- 40 DX cooler protection
- 41 Fire protection
- 42 Supply air pressure protection. The system is off.
- 43 Extract air fan pressure protection. The system is off.
- 44 Incorrect configuration
- 45 Intensive heater cooling by activation of manual protection
- 46 Intensive pre-heater cooling by activation of manual protection
- 47 Internal communication error
- 48 DX cooler defrosting
- 49 Too high relative humidity in extract air during 3 days. Increased air flow
- 50 Too high relative humidity in extract air. Increased air flow
 - 51 Broken rotor belt. The system is off
- 52 Gas heater failure
- 53 Gas pre-heater failure
- 54 Too high condensation level
- 55 Supply fan failure. Emergency run
- 56 Extract fan failure. Emergency run
- 57 Too low supply air flow for DX cooler
 58 Alarm! Bypass damper failure. System stopped.
 - 59 Alarm! Hydronic heater/pre-heater circ. pump failute. System stopped.
 - 60 Warning! Hydronic heater/pre-heater circ. pump failure.

Installation

- 1. Install cable between device and panel. Note that blue connector is for panel and modular connector is for device.
- 2. Open the panel (Fig. A), pass cable through the bottom of panel (Fig. B)
- 3. Mount the bottom of panel to wall (Fig. C)
- 4. Connect cable to panel.
- 5. Close and lock the panel.

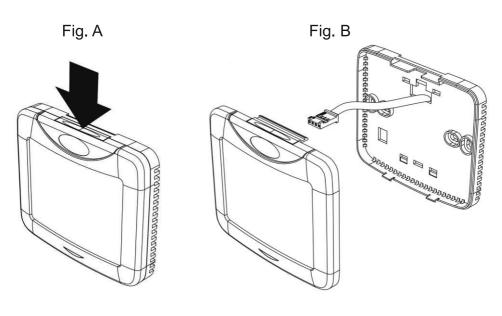
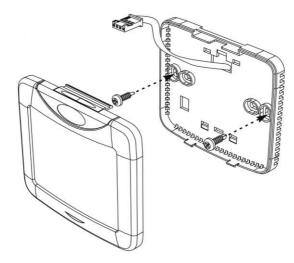


Fig. C



Technical data

Supply voltage [VDC]	1530
Data transfer	RS485
Dimensions (WxHxD) [mm]	104x93x17,5
Protection class	IP30
Ambient temperature [C]	0 +30
Ambient humidity [%]	max. 90

Package content

Remote controller TPC	1pcs.
Control cable with tips (5m)	2pcs.
Battery CR2032, 3V	1pcs.
User's manual	1pcs.

Transportation and storage

All products are packed in the factoy for normal transportation conditions. Do not take power supply-communication cable to lift the product. Store products in a dry place, where humidity does not exceed 70% (20°C) and ambient temperature is 5-40°C. Storage place must by secured from the water and dirt. Avoid of long term storage. It is not recomended to store longer than 1 year.

Company keeps the right to change technical parameters