V3.1

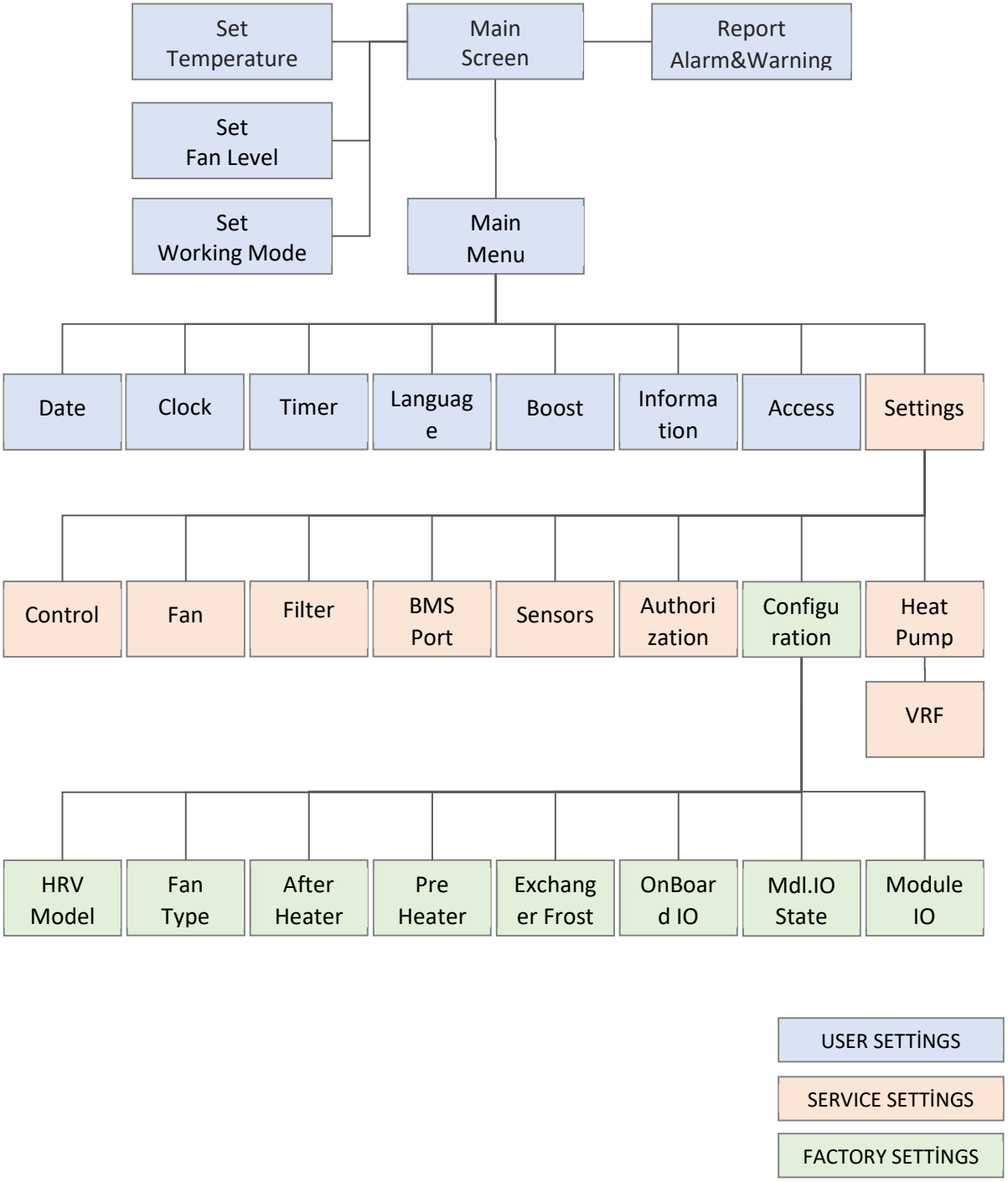
PANEL USER MANUEL

QBIT CONTROL
WWW.QBİTCONTROL.COM

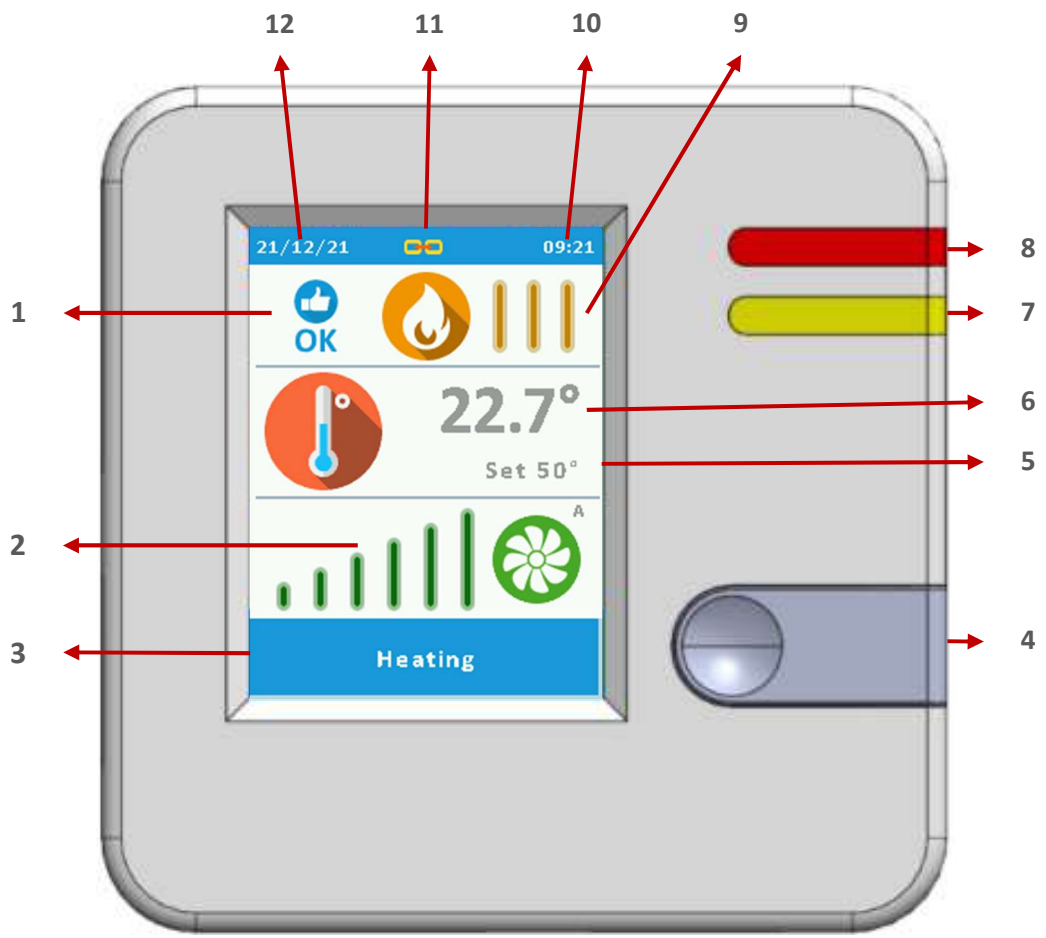
Table Of Contects

1. Menu Tree 2
2. Main Screen 3
2.1. Working Mode 4
2.2. Set Temperature 5
2.3. Warning And Alarm Report 6
3. Main Menu 7
3.1. Date and Clock 7
3.2. Timer Settings 8
3.3. Language 9
3.4. Boost 9
3.5. Information 10
3.6. Access 10
4. Service Menu 11
4.1. Control Settings 12
4.2. Fan Settings 13
4.3. Filter Settings 14
4.4. BMS Communication Settings 15
4.5. Sensors Settings 16
4.6. User Authorization Settings 17
4.7. Heat Pump Settings 17
4.8. VRF Settings 18
5. Configuration Menu 19
5.1. Scenario Model 19
5.2. Fan Type 20
5.3. After Heater 20
5.4. Pre Heater 21
5.5. Exchanger Frost 21
5.6. On Board Inputs and Outputs 22
5.7. External Module Inputs and Outputs 23
5.8. Assignable Inputs List 24
5.9. Assignable Outputs List 25

1. Menu Tree


Set Temperature
Main Screen
Report Alarm&Warning
Set Fan Level
Set Working Mode
Main Menu
Date
Clock
Timer
Languag e
Boost
Informa tion
Access
Settings
Control
Fan
Filter
BMS Port
Sensors
Authori zation
Configu ration
Heat Pump
VRF
HRV Model
Fan Type
After Heater
Pre Heater
Exchang er Frost
OnBoar d IO
Mdl.IO State
Module IO
USER SETTİNGS
SERVICE SETTİNGS
FACTORY SETTİNGS

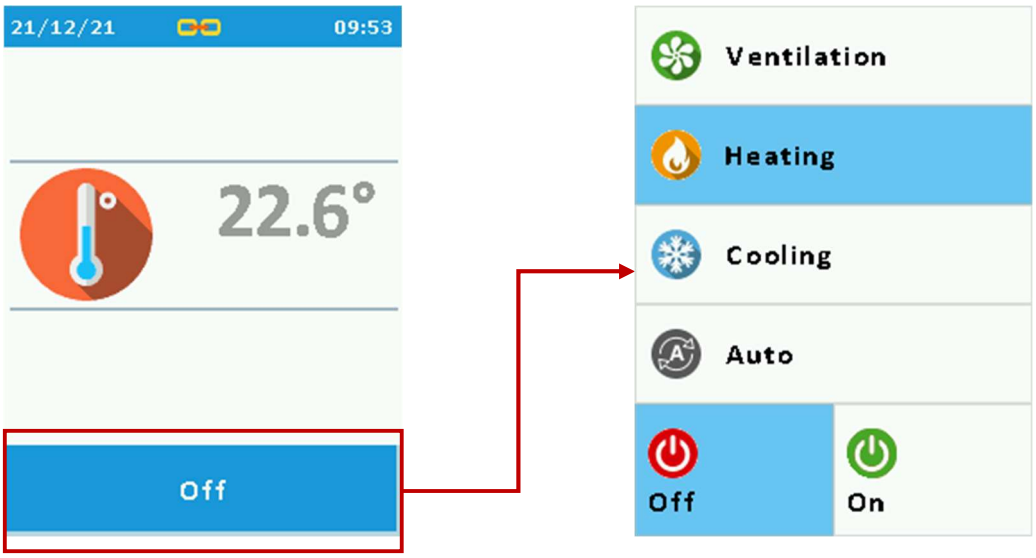
2. Main Screen



1	Warning And Alarm Report	**7**	Warning Indicator
2	Fan Speed Level	**8**	Power Indicator
3	Working Mode	**9**	Climate Level
4	Function Button	**10**	System Clock
5	Setting Temperature	**11**	Communication State
6	Measuring Temperature	**12**	System Date

Main Menu Screen is mainly start screen of system. You can reach all screen from Main Screen. This screen designed user friendly with text and icon. Users use this screen for general operations, Setting Temperature, Setting Fan Level, On/Off system and View Working State of system.

2.1. Working Mode



Entering this menu follow this steps;
- Open main screen
- Push blue button at bottom side of screen

In this menu you can set Climate Type;
- Ventilation
- Heating
- Cooling
- Auto

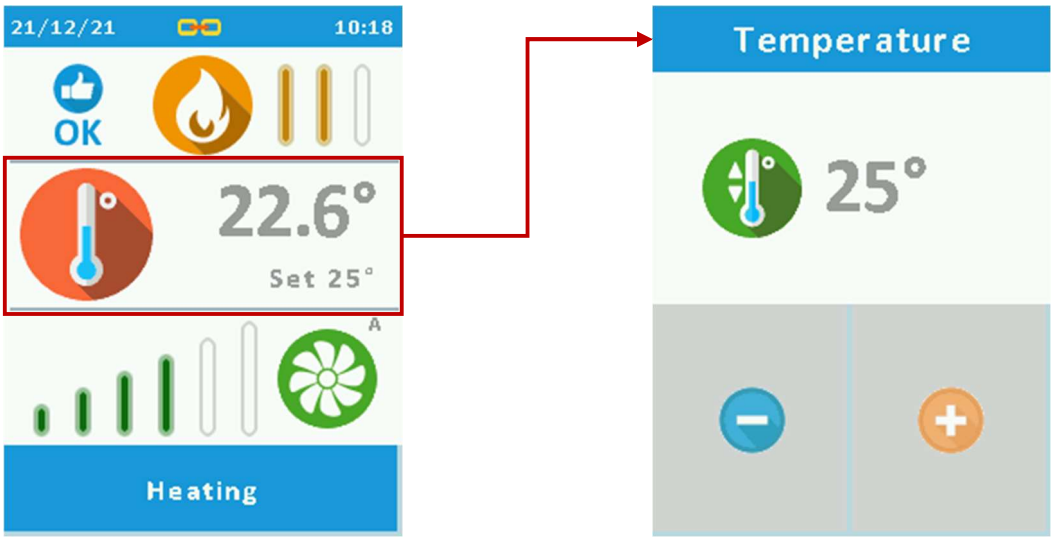
If you want to change Climate Type just push any Climate Types and see blue bar on it. When see blue bar means you selected.

And you can change system Working State ON and OFF.

If you want to change Working State just push ON or OFF buttons and see blue bar on it. When see blue bar means you selected.

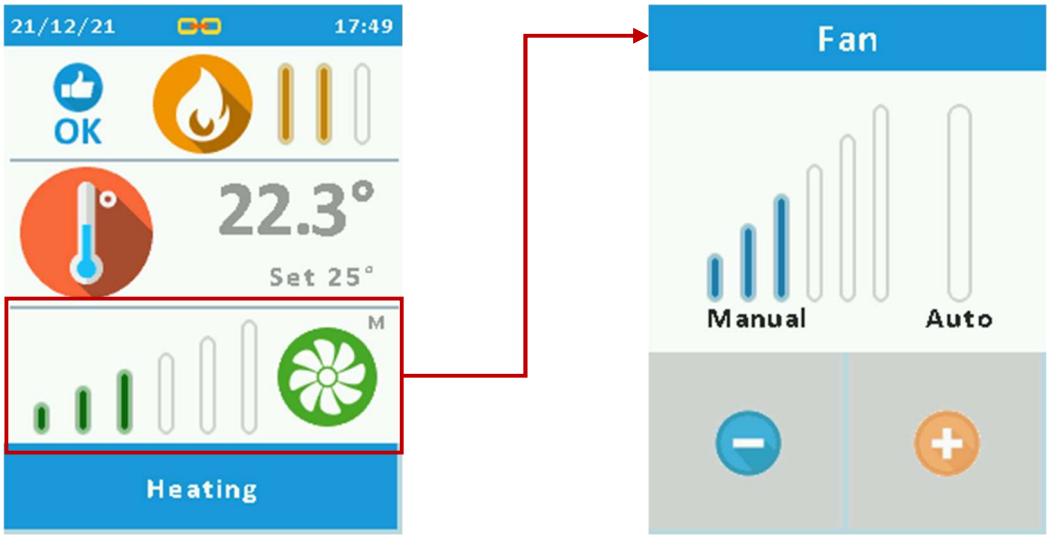
After that your selections will be saved when you push Function Button. Then you will return Main Screen and you will see your selections are working.

2.2. Set Temperature



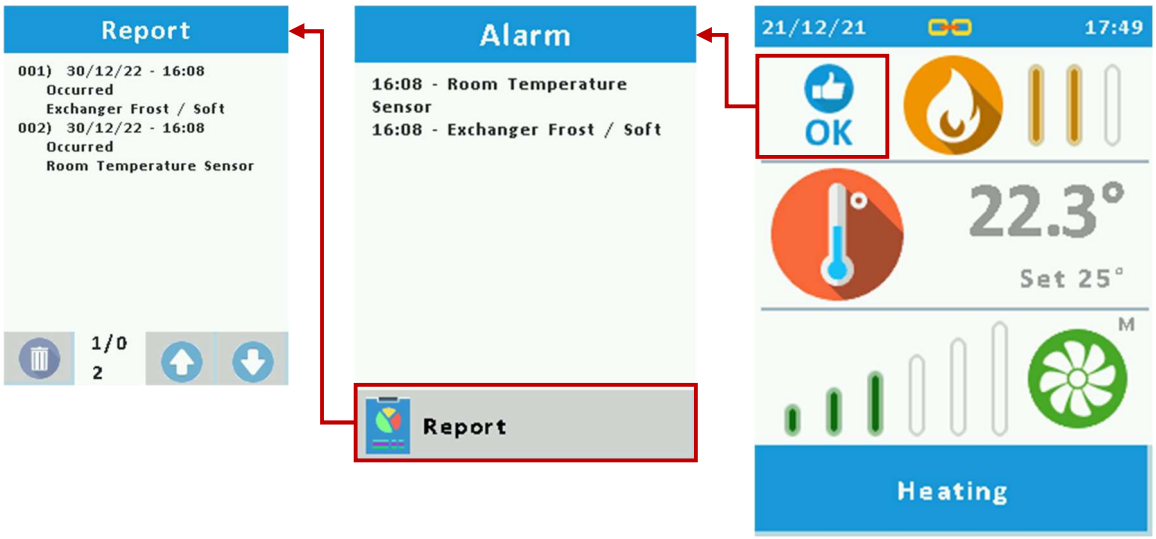
This setting is system working temperature.
At the Main Screen, there is Temperature icon. Push this icon area at the middle of screen and then enter the Set Temperature screen.
If you want to increase value, you can push "+" button once or continuous touch.
If you want to decrease value, you can push "-" button once or continuous touch.
You can enter 10°C to 50°C temperature.

2.3. Fan Level Set



This setting is fan speed.
At the Main Screen, there is Fan icon. Push this icon area at the bottom of screen and then enter the Fan Level Set screen.
If you want to increase level, you can push "+" button once touch.
If you want to decrease level, you can push "-" button once touch.
You can enter 1 to 6 level. If you want fan level automatically to control by pressure or air volume. You can make fan level Auto for this feature.

2.4. Warning And Alarm Report

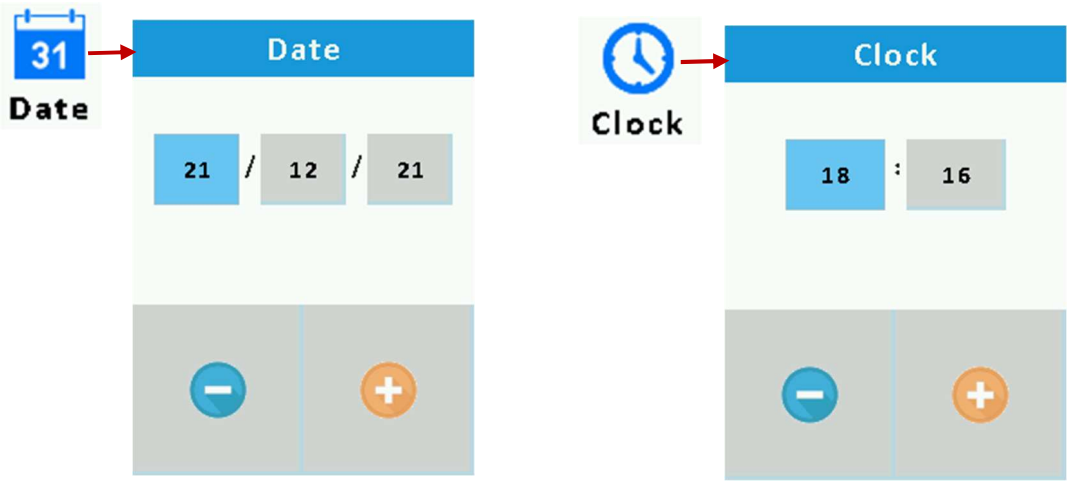


Warning and Alarm List		
Time (RTC)	ASP Tacho	Supply Air Temperature Sensor
Communication Panel/Controller	HeatPump Compr. Termic	Return Temperature Sensor
Communication BMS	HeatPump Pressure	Return Humidity Sensor
Communication Module IO	HeatPump Low Pressure	Return CO2 Sensor
Communication Cable Hum. Snr.	After Heater Termic	Return VOC Sensor
Communication Cable CO2 Snr.	After Heater Limit	Fresh Air Temperature Sensor
Communication Cable VOC Snr.	Pre Heater Termic	After Heater Temp. Sensor
Communication DPS1 Snr.	Pre Hater Limit	Pre Heater Temp. Sensor
Communication DPS2 Snr.	Filter Time Out	VNT Pressure Sensor
Fire	Filter Dirty	ASP Pressure Sensor
VNT Air Flow	VNT Filter Dirty	Device Turn ON
ASP Air Flow	ASP Filter Dirty	Device Turn OFF
Fan Error	Exchanger Frost	Device Wait Start
VNT Fan Error	Battery Frost	Exchanger Frost / Soft
ASP Fan Error	Battery Frost / Off	HeatPump Defrost
Fan Error / Off	VRF Defrost	Fan Boost Enable
VNT Fan Error / Off	No Control Temperature	Timer Enable
ASP Fan Error / Off	Panel Temperature Sensor	External Start
VNT Tacho	Room Temperature Sensor	

3. Main Menu

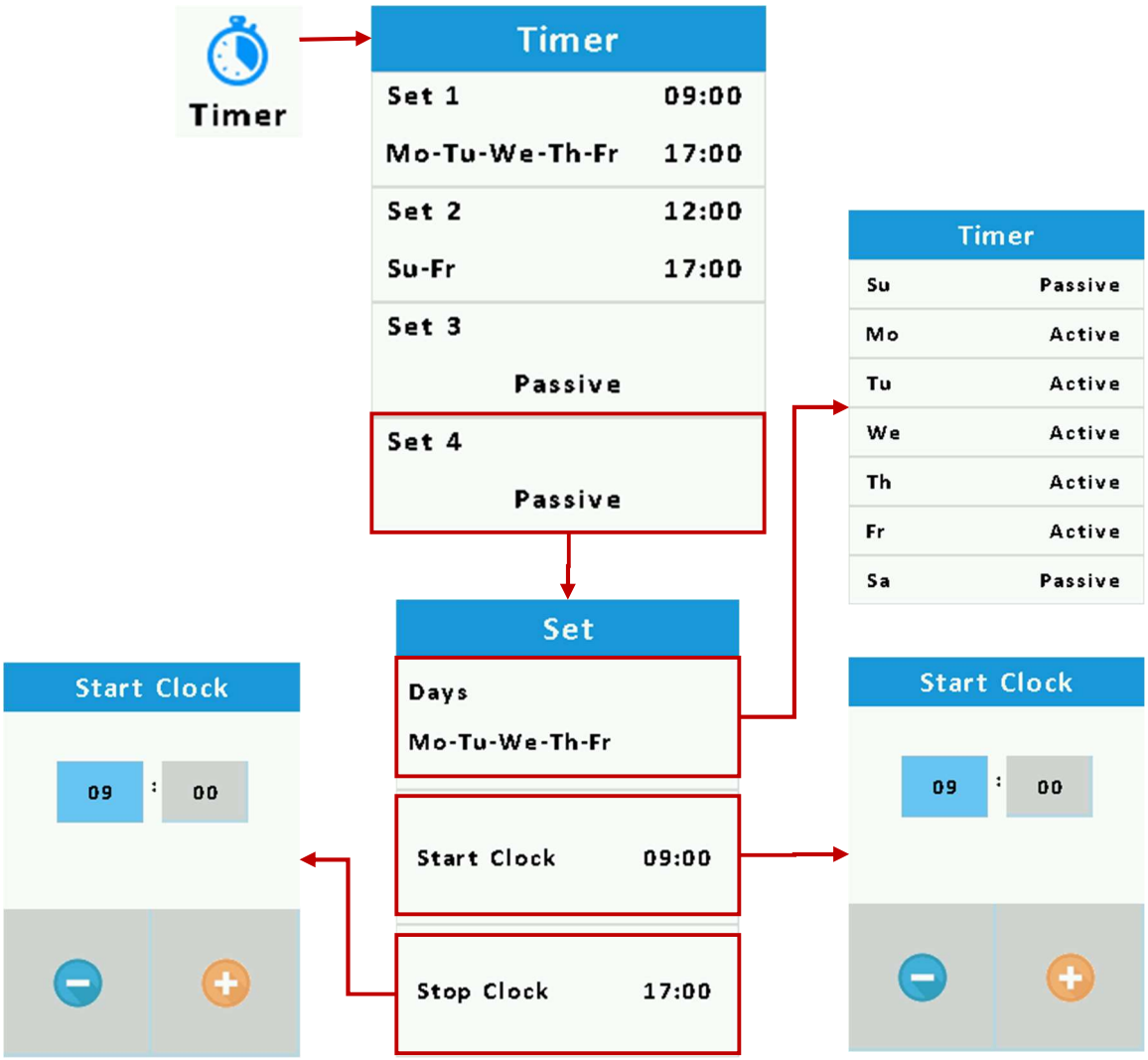
In this menu you can make system settings and you can enter service menu from this menu. If you want to enter this menu firstly you must at Main Screen and then you can enter with push Function Key right of screen than you can enter Main Menu.

3.1. Date and Clock



These settings are system real time clock settings.
This real time clock use for timer period and report of alarm and warning.
If you want to enter these menus, at Main Screen push function button than enter Main Menu and select Date or Clock symbol and push on symbols.
If you want to enter these settings, you can push “Date” and “Clock” icons at the Main Menu.
Which value you want to change, firstly push of value and see blue bar on it. After that you can push "-" for decreasing and push "+" for increasing value. İncrease and decrease button you can push once or continuously.
After that your settings will be saved when you push Function Button.

3.2. Timer Settings



These settings are working time period and day settings.
If you want to enter these menus, at Main Screen push function button than enter Main Menu and select Timer symbol and push on symbol.
There are 4 time period. Set 1, Set 2, Set 3 and Set 4.
These settings have days of week. Each day, you can make active or passive. And each settings have Star Clock and Stop Clock. With these settings you can make 4 working period time in day.

Note: If you set timer and time is in OFF period, you will see on main screen RED TIMER ICON and you can read info about system from report page. RED TIMER ICON means, the system is waiting for the ON time clock to starting. If you see GRAY TIMER ICON on main screen, system is ON time period and working.

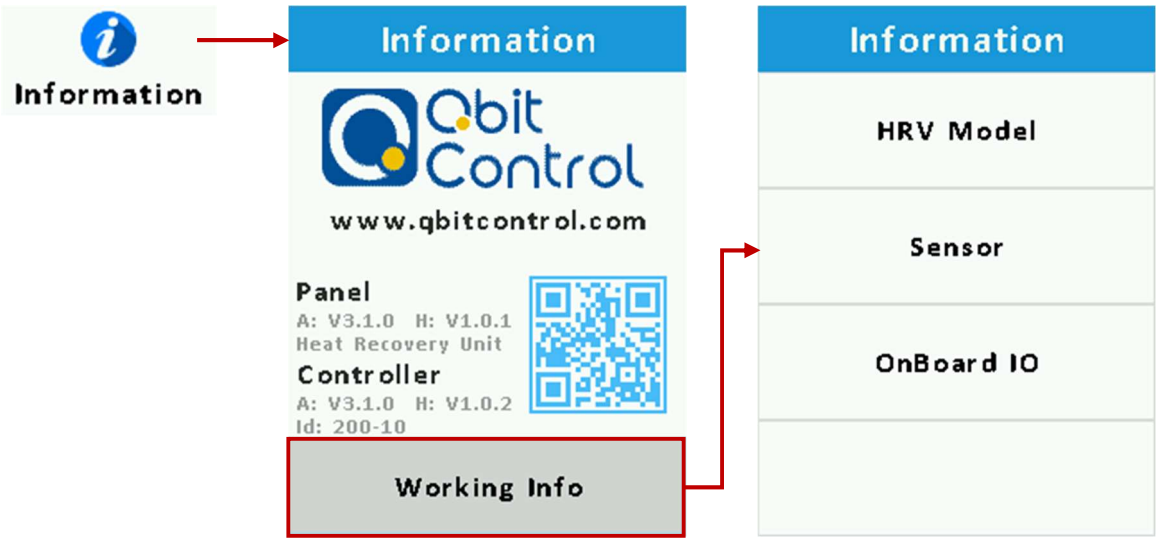
3.3. Language

This setting is use for all menu language and alarm report text.
You can enter this menu, at Main Screen push function button than enter Main Menu and select Language symbol and push on symbol. If you want to change Language, select any Language and push on it. When see blue bar means you selected. After that your selections will be saved when you push Function Button.

3.4. Boost

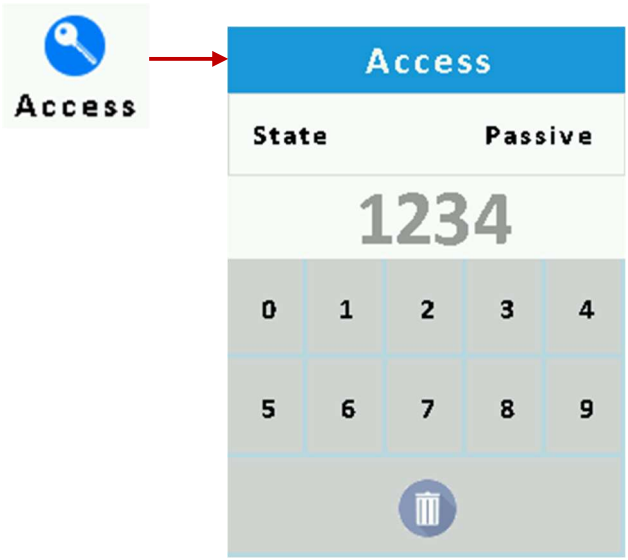
This setting use for fan run full level.
You can enter this menu, at Main Screen push function button than enter Main Menu and select Boost symbol and push on symbol. After that you will hear buzzer bib. This means your fan start running full level until 15 minutes. If you need full capacity working fan at a time you can push this button.

3.5. Information



In this menu you can see software version and working scenario configurations information. You can enter this menu, at Main Screen push function button than enter Main Menu and select Information symbol and push on symbol.

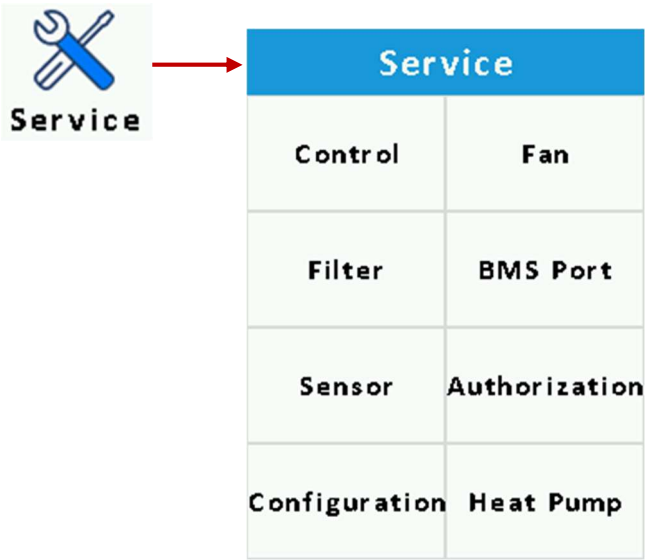
3.6. Access



This setting is user password. These settings come from the factory as passive and 1234. When active state of password, every setting page enter with this password number.

If forgot password, follow these steps;
- Power OFF system
- Hold down on function button at the right of screen
- Power ON system
- Access password is passive now
- You can enter Access menu and see password or change

4. Service Menu

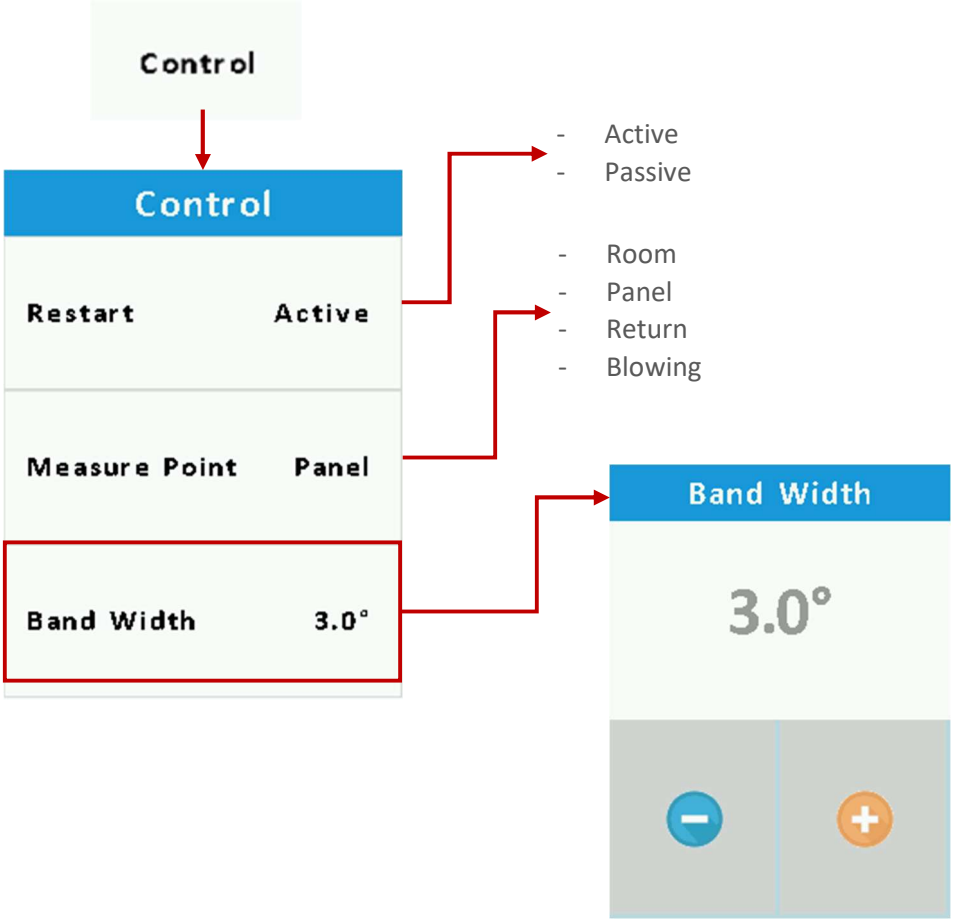


In this menu you can set Service Settings and you can enter factory Configuration mode from this menu.
If you want to enter this menu you must follow bottom steps;

- System working mode make OFF
- Open Main Screen
- Push 3 seconds on Function button
- Hear buzzer beep
- Enter Main Menu
- Push Service Button

Attention: This menu is only for service personnel. The user should not make any change in this menu.

4.1. Control Settings



Restart:

- If select Active, when system electricity off and on after that the system continues to work from where it left
- If select Passive, when system electricity off and on after that the system always start in off.

Measure Point:

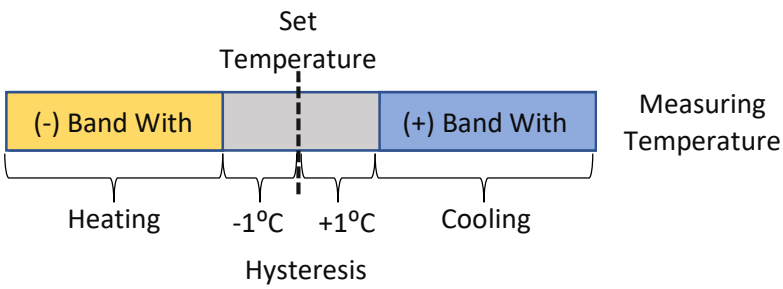
This is the temperature point to control.

Select which place do you need to control.

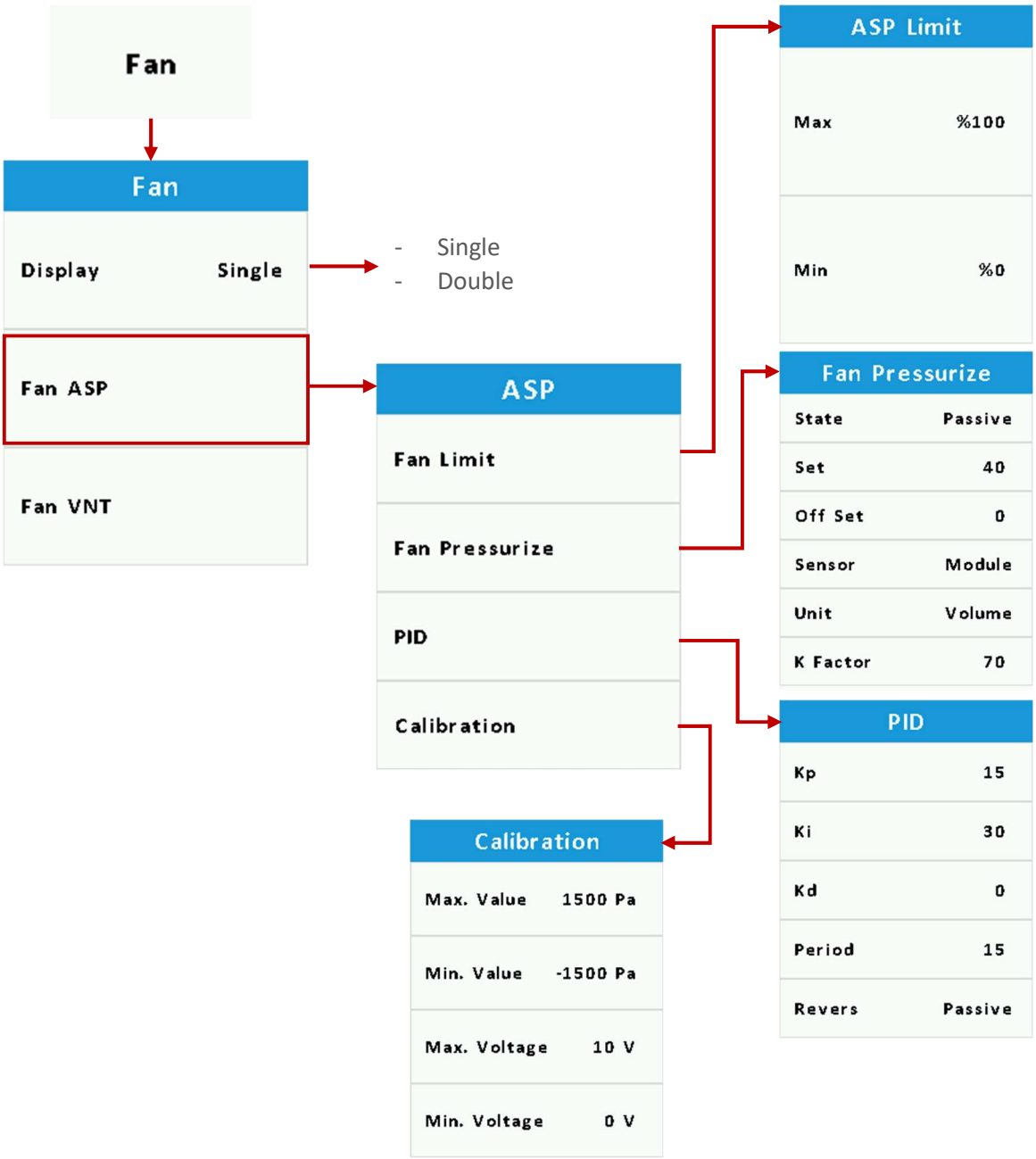
Note: The measure point temperature input you have selected must be assigned to the universal inputs. Note: This setting should be made by factory technicians.

Band Width:

This is the measure temperature and set temperature comparison range.



4.2. Fan Settings



In this menu you can set Aspiration and Ventilation Fans settings.

Fan Limit:

With these settings you give limit for fan speed working area.

Fan Pressurize & PID:

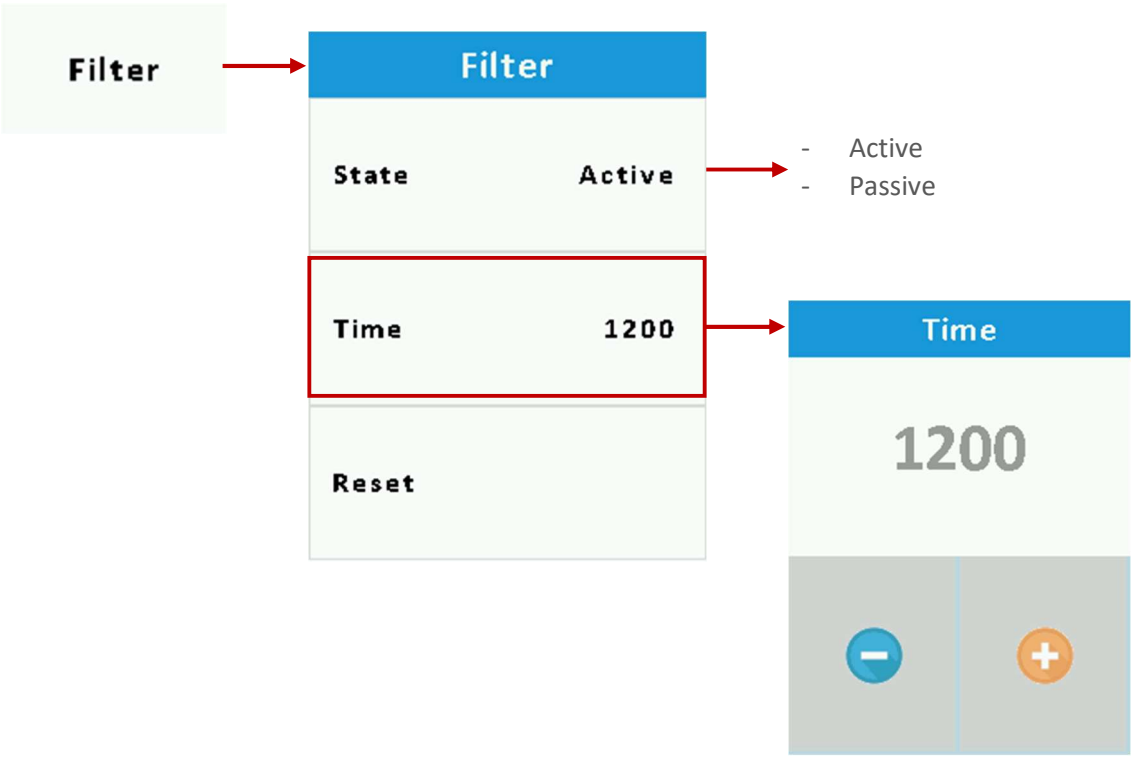
With these settings use for fan pressure or volume control.

Note: These settings work only fan auto mode.

Calibration:

If you have 0-10V pressure sensor, you can use these settings for calibration.

4.3. Filter Settings



The time counter settings use for Filter Dirty warning message,

State :

- If select Active, when system working time pass over Time value then get filter dirty warning.
- If select Passive, this feature will not work.

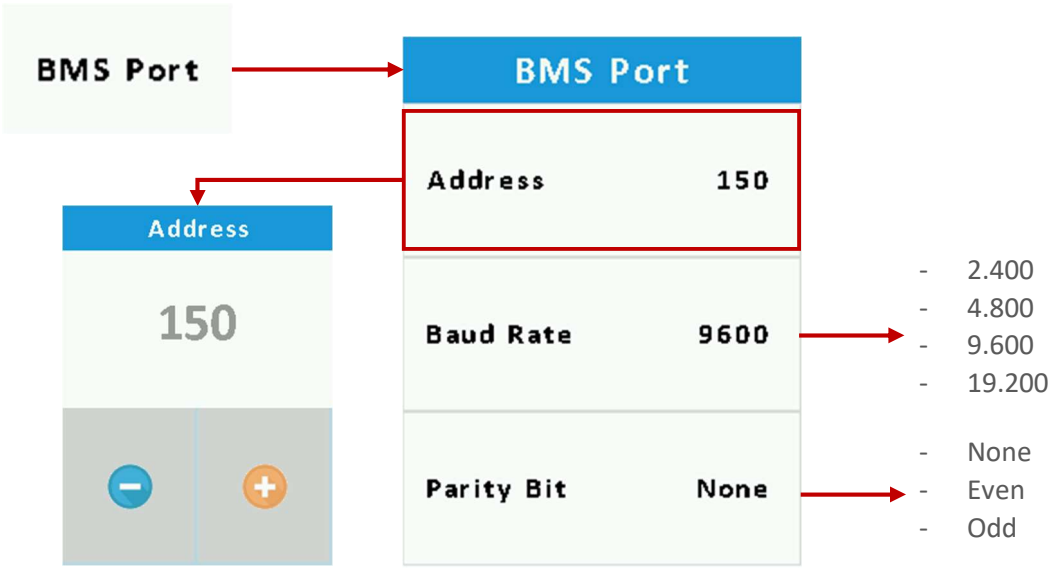
Time:

This time set use for time count. Enter time value in hour.

Reset:

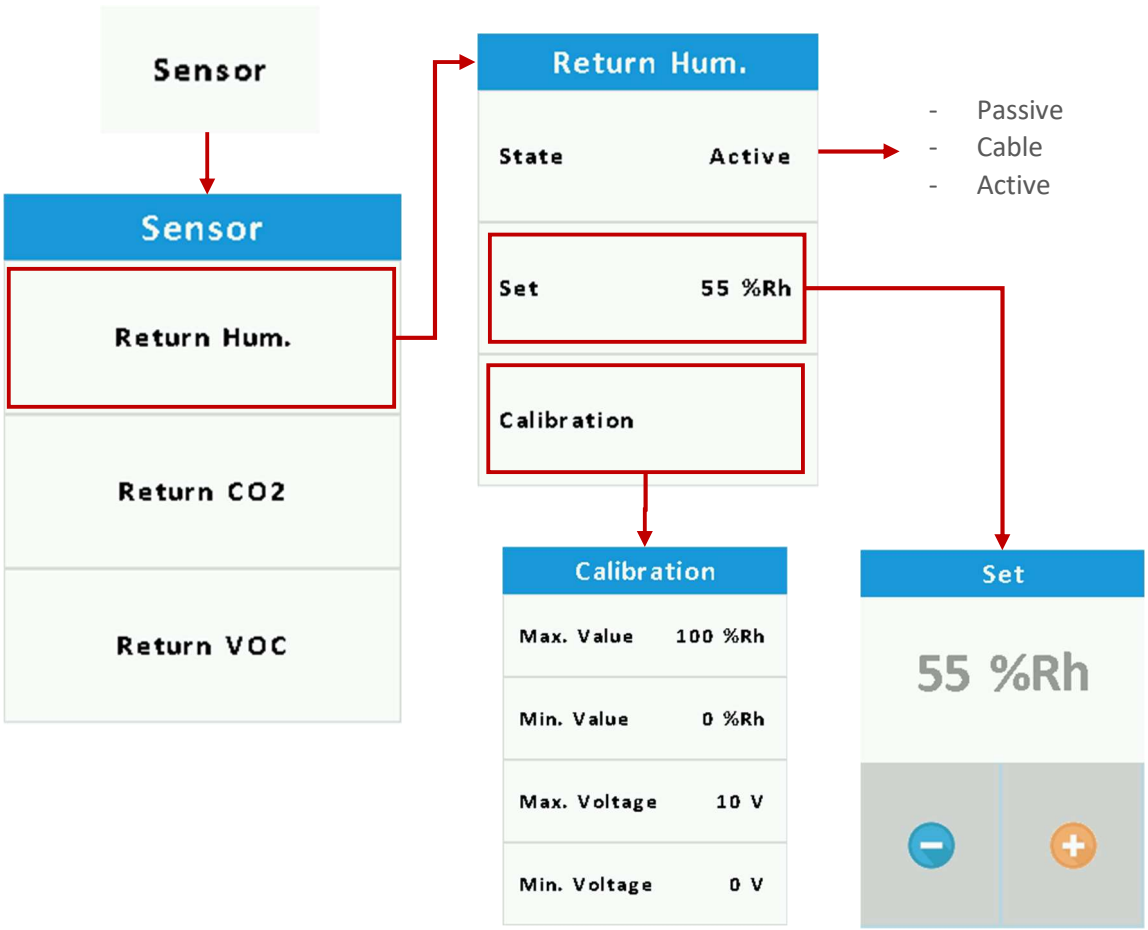
If occurs Filter Dirty Time warning, you can reset warning with this button.

4.4. BMS Communication Settings



These settings use for building management system connections.
You can set Address, Bound Rate and Parity Bit.
Note: If you want to use BMS Port, you must know registers address. You can get register address list from web or supplier.

4.5. Sensors Settings



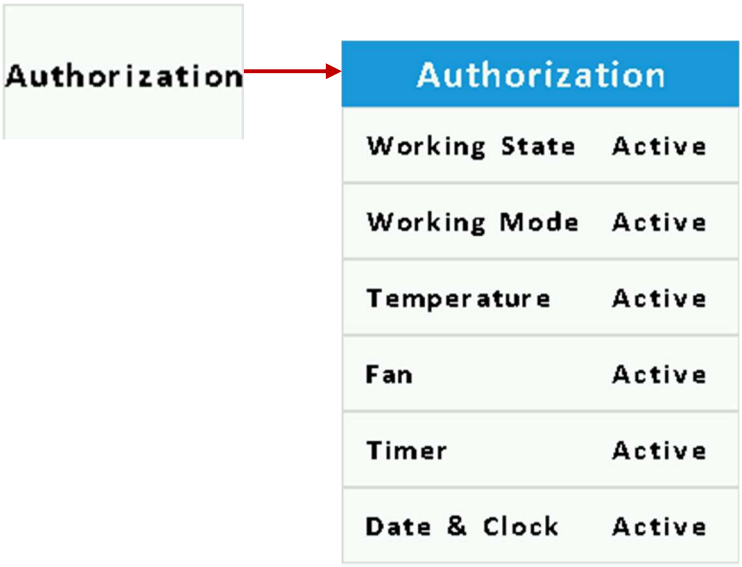
These setting use for active sensors. You can add sensor, calibrate, change set value.
There are three types of sensors.
- Humidity
- Carbon Dioxide
- Volatile Organic Compounds

State:
If you want to use sensor select connection type Cable or Active.
Cable type is our cost-effective sensor.
Active type is 0-10V outputs sensor.

Set:
Set is Fan full level working point.
If sensing value will be over of set, Fans run 6 level until measure value going down.

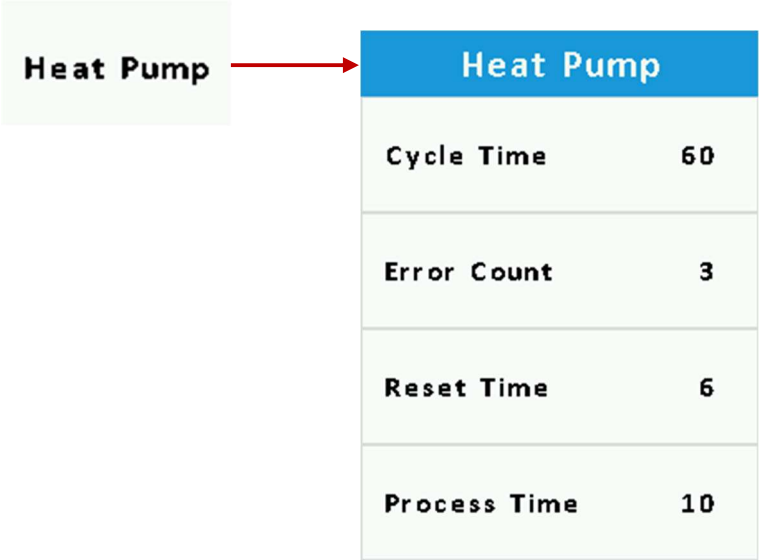
Calibration:
Calibrations settings use converting min and max sensor values to 0-10V.

4.6. User Authorization Settings



These setting use for user limit.
If Active user can be change setting, If Passive user cannot change setting.

4.7. Heat Pump Settings



These setting use for compressor.

Cycle Time:

Cycle times is heating to cooling and cooling to heating changing time.

Error Counter:

Error counter is low pressure error counter. With this counter, the system enter defrost mode.

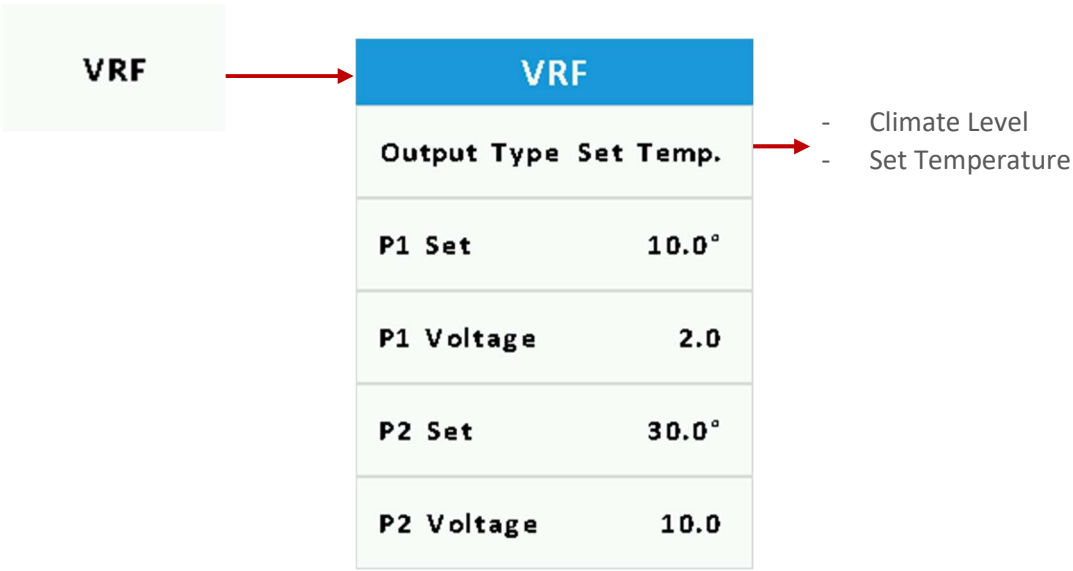
Reset Time:

This error use for automatically resetting error counter. If in this time, error counter not reach to count number automatically reset error counter make zero.

Process Time:

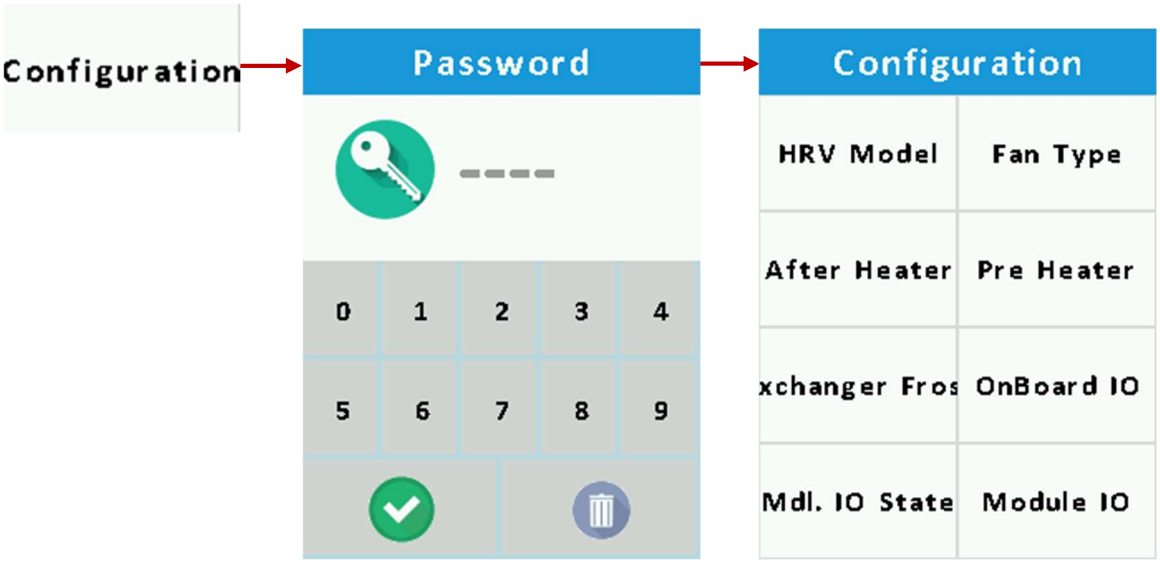
The system remains in defrost mode during this time.

4.8. VRF Settings

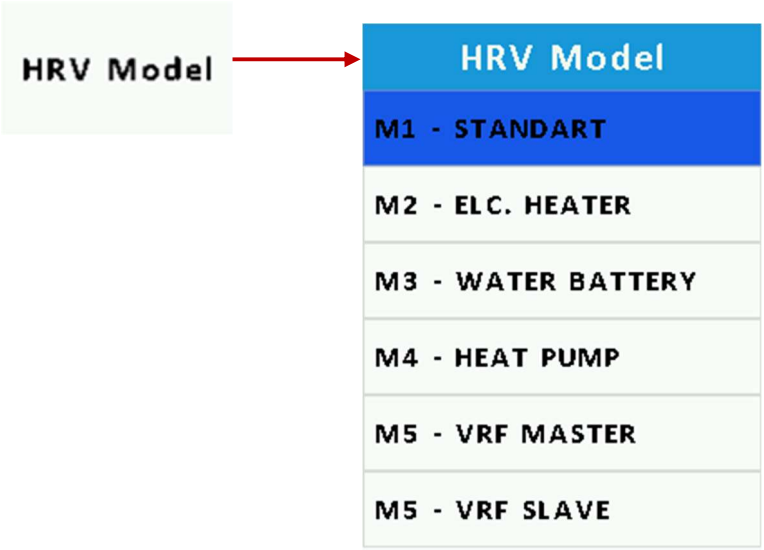


This setting is use for VRF AHU kit.
The system work with two type of AHU Kit
Climate level and Set level.
If you have Climate level working AHU Kit, you can select Output Type is Climate Level.
If you have Setting Temperature working AHU Kit, you can select Output Type is Set Temperature. After that you can calibrate Set Temperature 0-10V voltage outputs with P1 and P2 settings.

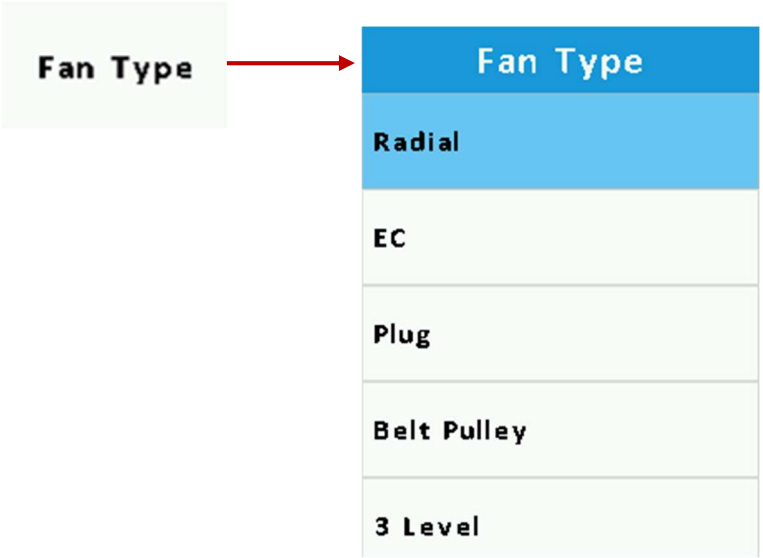
5. Configuration Menu



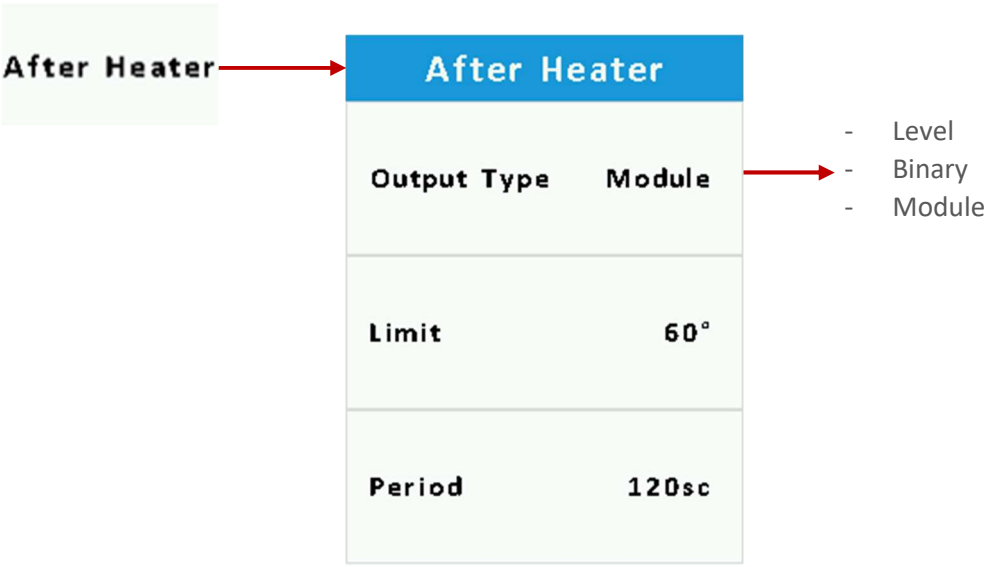
5.1. Scenario Model



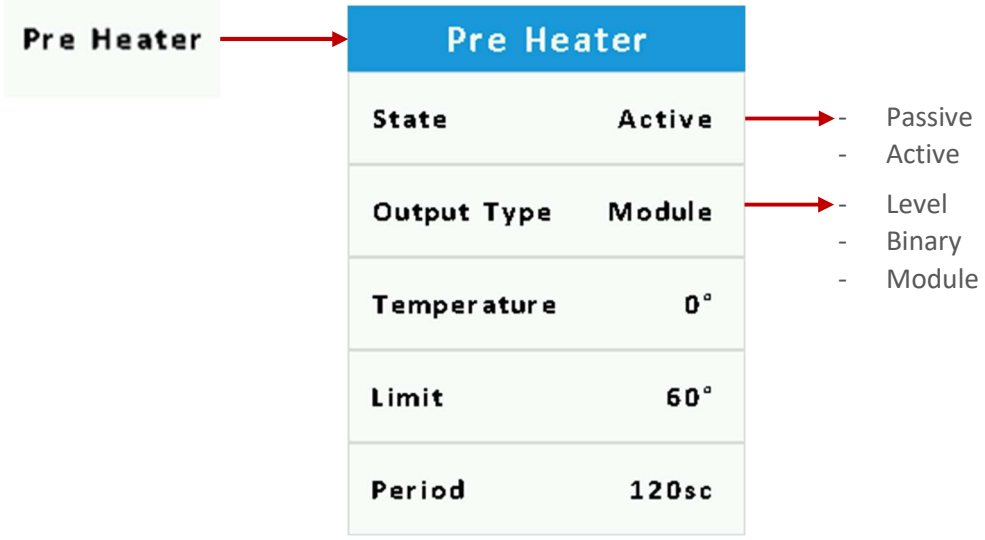
5.2. Fan Type



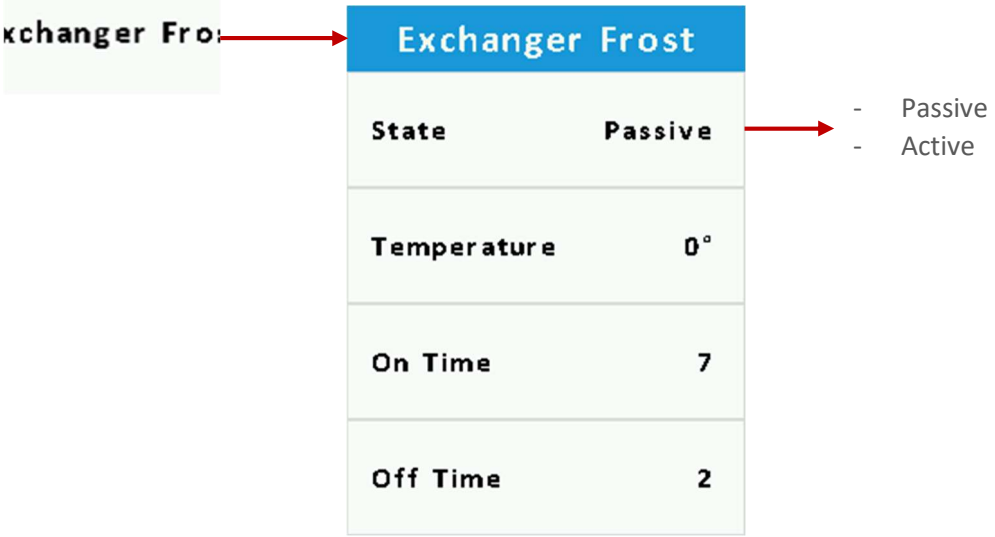
5.3. After Heater



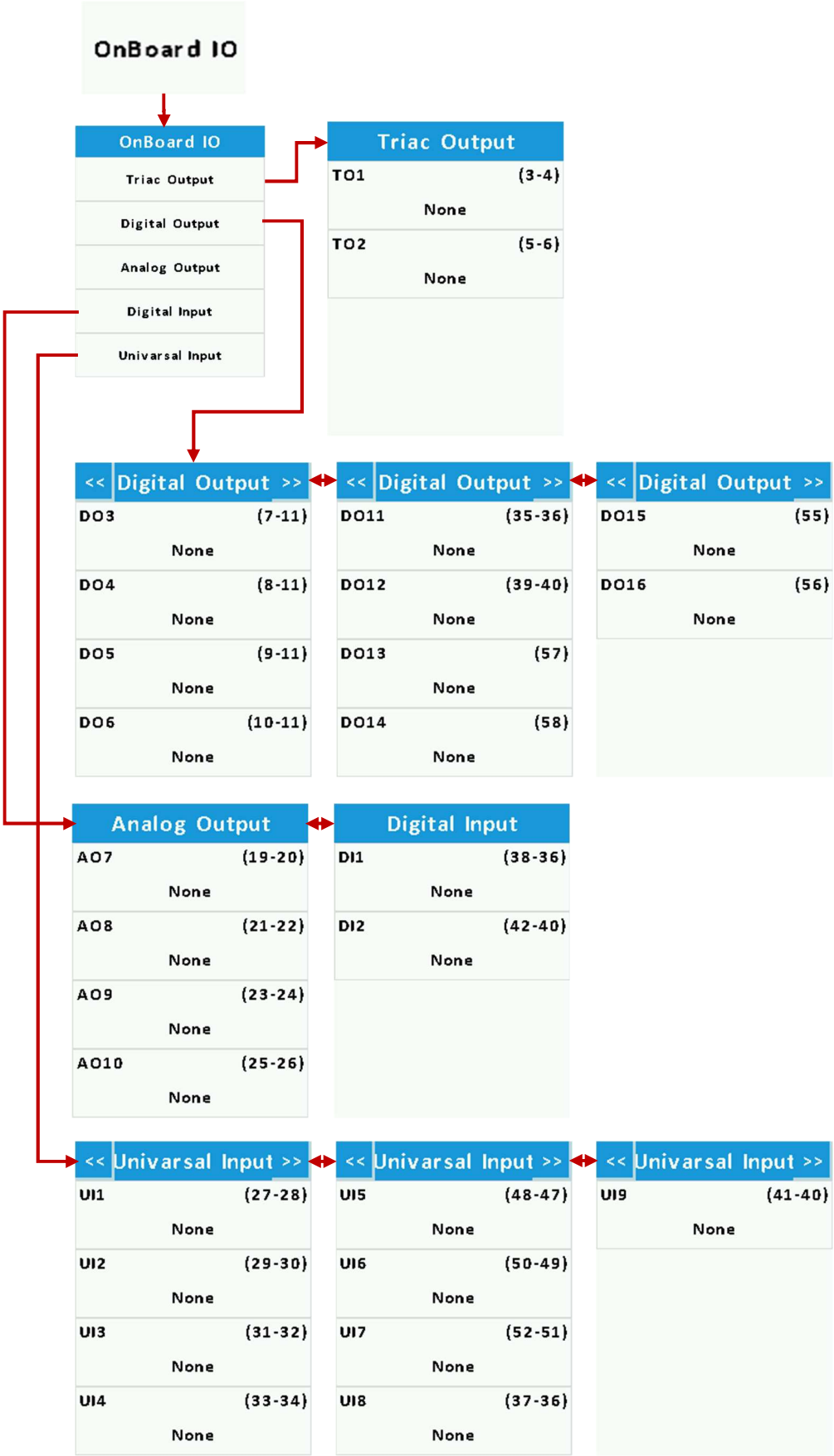
5.4. Pre Heater



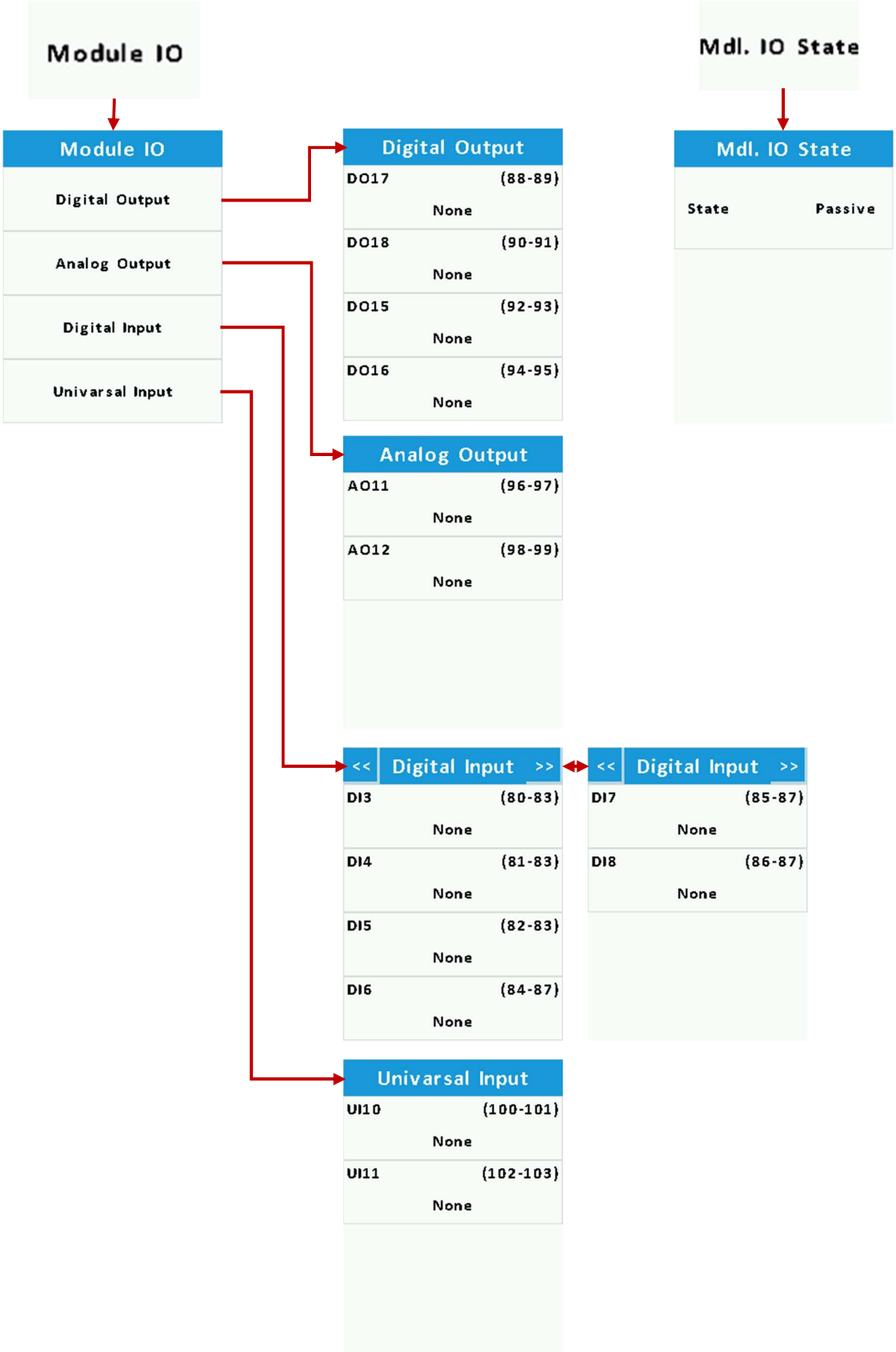
5.5. Exchanger Frost



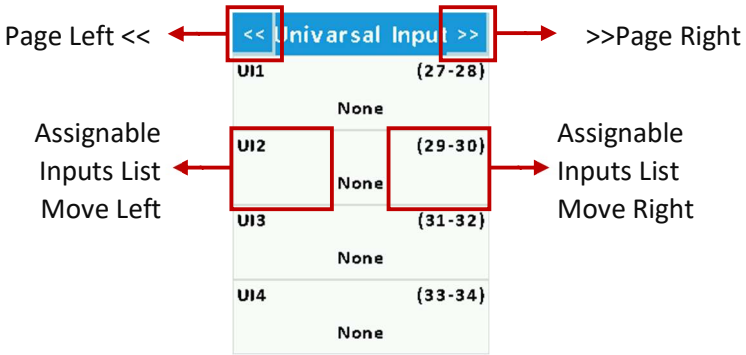
5.6. On Board Inputs and Outputs



5.7. External Module Inputs and Outputs

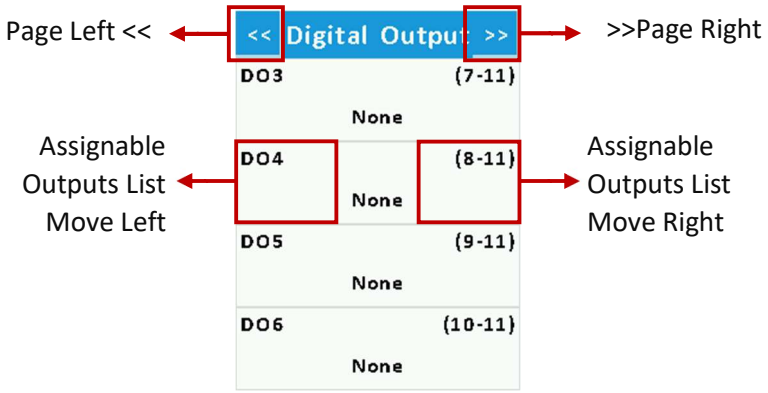


5.8. Assignable Inputs List



Digital Inputs	
Fire OFF	Compressor Pressures Error
Fire Ventilation	Compressor High Pressure Error
Fire Aspiration	Compressor Low Pressure Error
	Compressor Thermic Error
External Start	
	VRF AHU Kit Defrost
Fans Error	VRF AHU Kit Fan Low Speed
Ventilation Fan Error	VRF AHU Kit Fan Medium Speed
Aspiration Fan Error	VRF AHU Kit Fan High Speed
Fans Error Off (Fans Out OFF)	
Ventilation Fan Error OFF (VNT Out OFF)	Filter Dirty Pressure Switch
Aspiration Fan Error OFF (ASP Fan OFF)	Ventilation Filter Dirty Pressure Switch
Ventilation EC Fan Tacho	Aspiration Filter Dirty Pressure Switch
Aspiration EC Fan Tacho	
	Exchanger Frost Pressure Switch
Boost	
	Water Battery Frost Thermostat (Auto Reset)
After Heater Thermic Error	Water Battery Frost Thermostat OFF(Manuel Reset)
After Heater Limit Warning	
Pre Heater Thermic Error	Ventilation Fan Air Flow Pressure Swicth
Pre Heater Limit Warning	Aspiration Fan Air Flow Pressure Switch
Analog Inputs	
Ventilation Fan Air Pressure Sensor	
Aspiration Fan Air Pressure Sensor	
Room Temperature Sensor NTC10K	
Supply Air Temperature Sensor NTC10K	
Return Air Temperature Sensor NTC10K	
Return Air Humidity Sensor	
Return Air Carbon dioxide Sensor	
Return Air Volatile Organic Compounds Sensor	
Fresh Air Temperature Sensor NTC10K	
After Heater Limit Temperature Sensor NTC10K	
Pre Heater Limit Temperature Sensor NTC10K	

5.9. Assignable Outputs List



Triac Outputs	Digital Outputs	Analog Outputs
Ventilation Fan Level	Working State	Ventilation Fan Ration
Aspiration Fan Level	Alarm State	Aspiration Fan Ration
	Bypass Damper	Climate Ration
	Air Inlet Damper	Cooler Ration
	Cooler	Heater Ration
	Heater	
	Ventilating Fan Start	
	Aspiration Fan Start	
	Ventilation Fan Level 1	
	Ventilation Fan Level 2	
	Ventilation Fan Level 3	
	Aspiration Fan Level 1	
	Aspiration Fan Level 2	
	Aspiration Fan Level 3	
	After Heater Out 1	
	After Heater Out 2	
	After Heater Out 3	
	After Heater Out PWM	
	Pre Heater Out 1	
	Pre Heater Out 2	
	Pre Heater Out 3	
	Pre Heater Out PWM	
	Compressor	
	4 Way Valve	