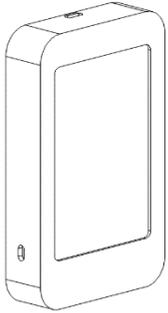


1. TOUCH PANEL

1.1. Touch Panel (HRDLITE T-CONTROLLER)

Please read this manual before using the product!!!

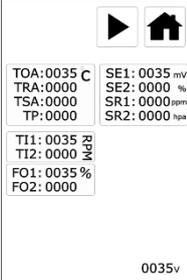
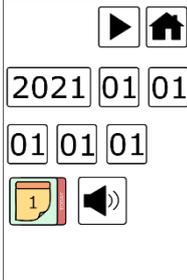


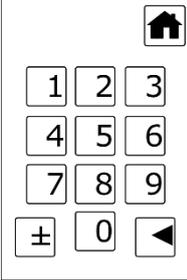
Touch Control Panel; It is designed to control all functions of the unit and to make settings related to the device. There are no keys on the panel. Some symbols on the screen are functional and are used instead of keys, while some symbols are used for informational purposes.

Equipment view	Dimensions
<p>TFT Screen</p>	<p>105mm 65mm 18mm</p>

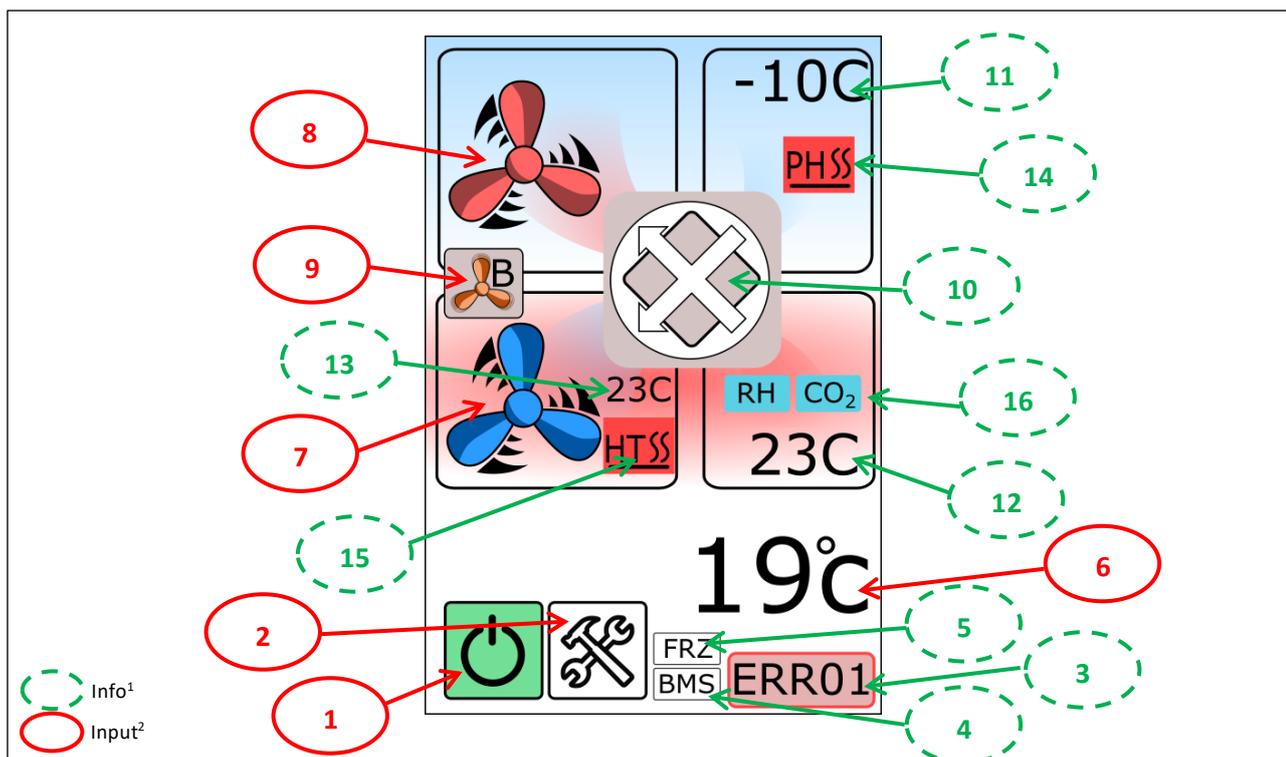
1.2. Screenshots

1.Screen Heat Recovery Unit	1.Screen Heat Recovery Unit with Heat Pump	1.Screen Air Purifier Unit

2.Screen Timer	3.Screen Information	4.Screen Settings
 <p>The 2.Screen Timer interface features a top navigation bar with a '1' icon, a play button, and a home button. Below this are two columns of fan icons, each with a '00:00' timer display underneath. The entire screen is enclosed in a rectangular border.</p>	 <p>The 3.Screen Information interface has a top navigation bar with a play button and a home button. The main area contains two columns of technical data: TOA:0035 C, TRA:0000, TSA:0000, TP:0000 on the left; and SE1: 0035 mV, SE2: 0000 %, SR1: 0000 rpm, SR2: 0000 rpm on the right. Below this is another set of data: TI1: 0035 rpm, TI2: 0000 rpm, FO1: 0035 %, FO2: 0000. The time '0035v' is displayed at the bottom right.</p>	 <p>The 4.Screen Settings interface includes a top navigation bar with a play button and a home button. It features two rows of three-digit displays showing '2021 01 01' and '01 01 01'. At the bottom, there is a '1' icon, a play button, and a speaker icon.</p>

5.Screen Company Logo	6.Screen Service Login Screen
 <p>The 5.Screen Company Logo interface has a top navigation bar with a play button and a home button. The main area is dominated by a large grey square labeled 'LOGO'. At the bottom left, the text 't2106' and 'v261120' is displayed.</p>	 <p>The 6.Screen Service Login Screen interface features a top navigation bar with a home button. The main area contains a numeric keypad with buttons for digits 1-9, a plus/minus sign, and a zero button. A left-pointing arrow button is located at the bottom right of the keypad.</p>

Heat Recovery Unit / "1.Screen" Symbols: Main Screen



¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

1.Symbol: Unit On/Off		
Symbol	Description	Function
	Unit is "On"	Turns "On" the unit
	Unit is "Off"	Turns "Off" the unit

2.Symbol: Service Screen Symbol		
Symbol	Description	Function
	Service Screen Symbol	Switch to 2.Screen

3.Symbol	Fault code.

4.Symbol: Timer

	BMS or TIMER is inactive.
BMS	BMS is active.
TMR	TIMER is active.

5.Symbol: Defrost

FRZ	Frost protection is active.
FDF	Frost protection is active for DX system

6.Symbol: Temperature

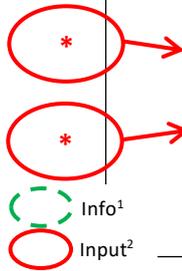
Symbol	Description	Function
19°C	Air temperature on Panel (T_PA)	Set temperature

Temperature Set Area

Symbol	Description	Function
G	Return symbol	Return to 1.Screen.
22°C	Temperature set value.	-----
△	Up symbol	Increase existing value.
▽	Down symbol	Decrease existing value.

The image shows a control panel interface with several elements:

- Top left: A fan icon with a red 'PHSS' indicator and a temperature of -10C.
- Top right: A fan icon with a blue 'HTSS' indicator and a temperature of 23C.
- Center: A large '22°C' setpoint with a 'G' symbol to its left.
- Bottom: Two buttons, an up arrow (△) and a down arrow (▽), with a red asterisk (*) next to the down arrow button.
- Annotations: A red circle with an asterisk (*) points to the 'G' symbol. Another red circle with an asterisk (*) points to the down arrow button. A green dashed circle surrounds the '22°C' value.



7.Symbol: Fresh Air Fan		
Symbol	Description	Function
	Closed	Fan runs at “low” speed.
	Fan speed “low”.	Fan runs at “med” speed.
	Fan speed “med”	Fan runs at “high” speed.
	Fan speed “high”	Fan runs at VOD mode.
	VOD mode is active	Fan turns “off”
	Fan speed “boost”	---

8.Symbol: Exhaust Air Fan		
Symbol	Description	Function
	Closed	Fan runs at “low” speed.
	Fan speed “low”.	Fan runs at “med” speed.
	Fan speed “med”	Fan runs at “high” speed.
	Fan speed “high”	Fan runs at VOD mode.
	VOD mode is active	Fan turns “off”
	Fan speed “boost”	---

9.Sembole: Fan Boost Symbol		
Symbol	Description	Function
	“Boost” speed symbol	Fan runs at “boost” speed.
	“Boost” speed is active	-----

10.Symbol: Heat exchanger (Plate or Rotor) & By-Pass damper Symbol			
	Exchanger: Plate type By-Pass: not available Unit: Closed		Exchanger: Plate type By-Pass: Available / Closed Unit: Closed
	Exchanger: Plate type By-Pass: not available Unit: Working		Exchanger: Plate type By-Pass: Available / Closed Unit: Working
	Exchanger: Rotor type By-Pass: not available Unit: Closed		Exchanger: Plate type By-Pass: Available / Open Unit: Working
	Exchanger: Rotor type By-Pass: not available Unit: Working		

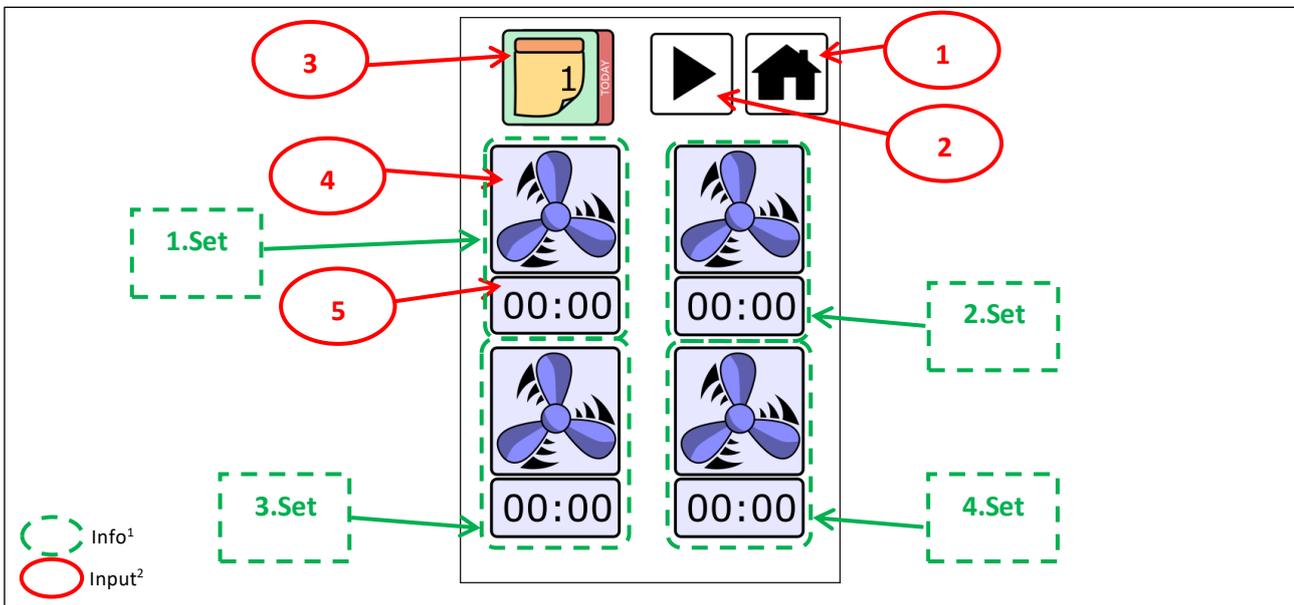
11.Symbol	Outdoor air temperature (T_OA).
12.Symbol	Return air temperature (T_RA).
13.Symbol	Supply air temperature (T_SA) (If sensor is available).

14.Symbol: Preheater Symbol	
	Not available
	Type: Preheater Status: Closed
	Type: Preheater Status: Open

15.Symbol: Heating and/or Cooling Equipment Symbol			
	Not available		Type: Water coil Status: Closed
	Type: Heater Status: Closed		Type: Water coil Status: Open / Cooling mode
	Type: Heater Status: Open		Type: Water coil Status: Open / Heating mode

16.Symbol: Sensor	
	CO ₂ sensor is available (Part I – Section 4.1.3 or 4.1.4)
	Humidity sensor is available (Part I – Section 4.1.2 or 4.1.4)

“2.Screen” Symbols: Timer

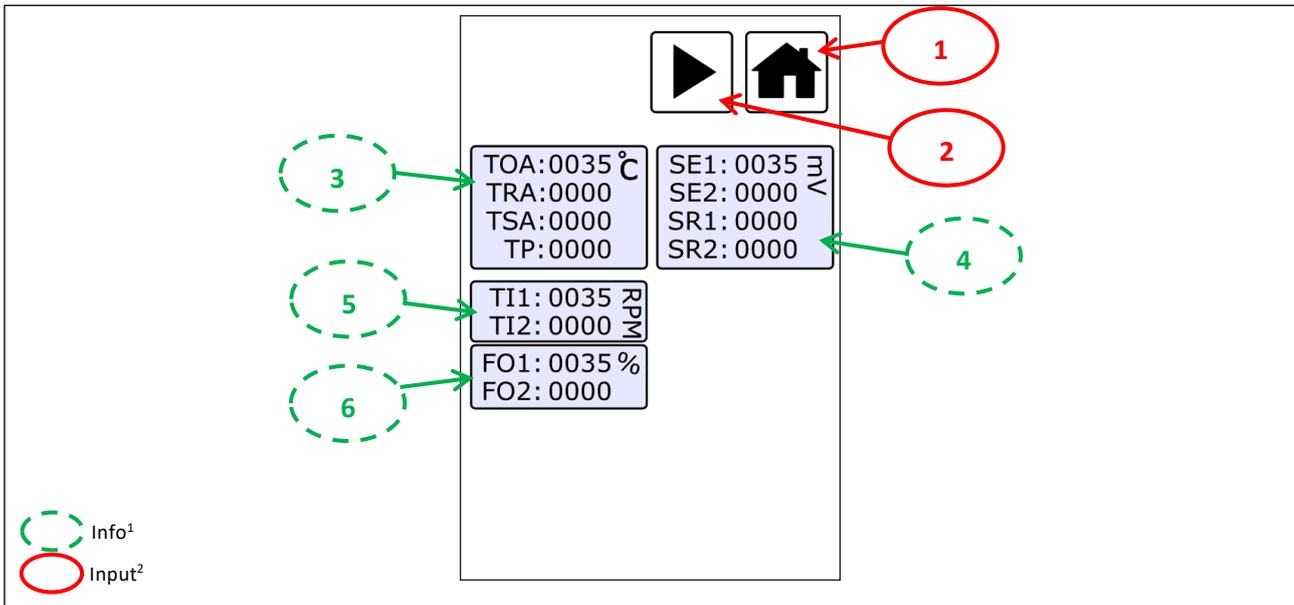


¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

Field	Symbol	Description	Function
1.Symbol		Main screen symbol	Switch to 1.Screen.
2.Symbol		Next screen symbol	Switch to 3.Screen.
3.Symbol		Day of the week	Select day.
4.Symbol		Fan mode	Select fan speed.
5.Symbol		Clock	Select activating time for Fan speed.

“3.Screen” Symbols: Information



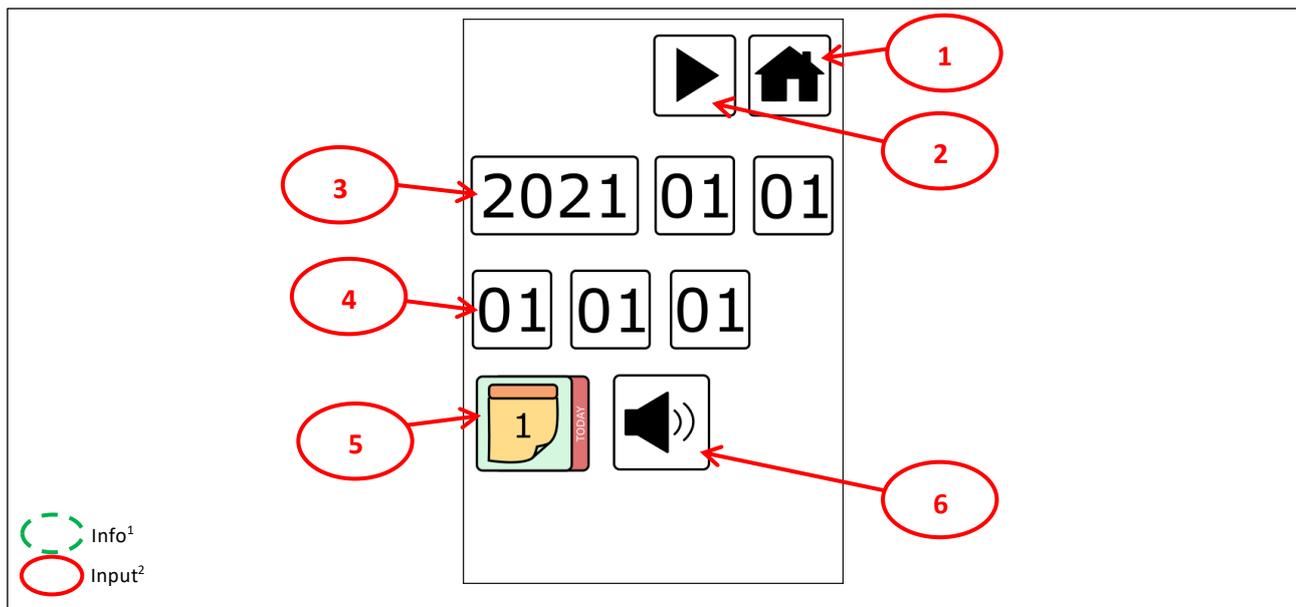
¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

Field	Symbol	Description	Function
1.Symbol		Main screen symbol	Switch to 1.Screen.
2.Symbol		Next screen symbol	Switch to 4.Screen.

3.Field	Temperature sensor values [°C]
4.Field	Sensor values [mV]
5.Field	Fan speed values [rpm] (If fan tachometer connection is available)
6.Field	Fan speed values [%]

"4.Screen" Symbols: Settings



¹ Info symbols are to show the status of the equipment it is in.

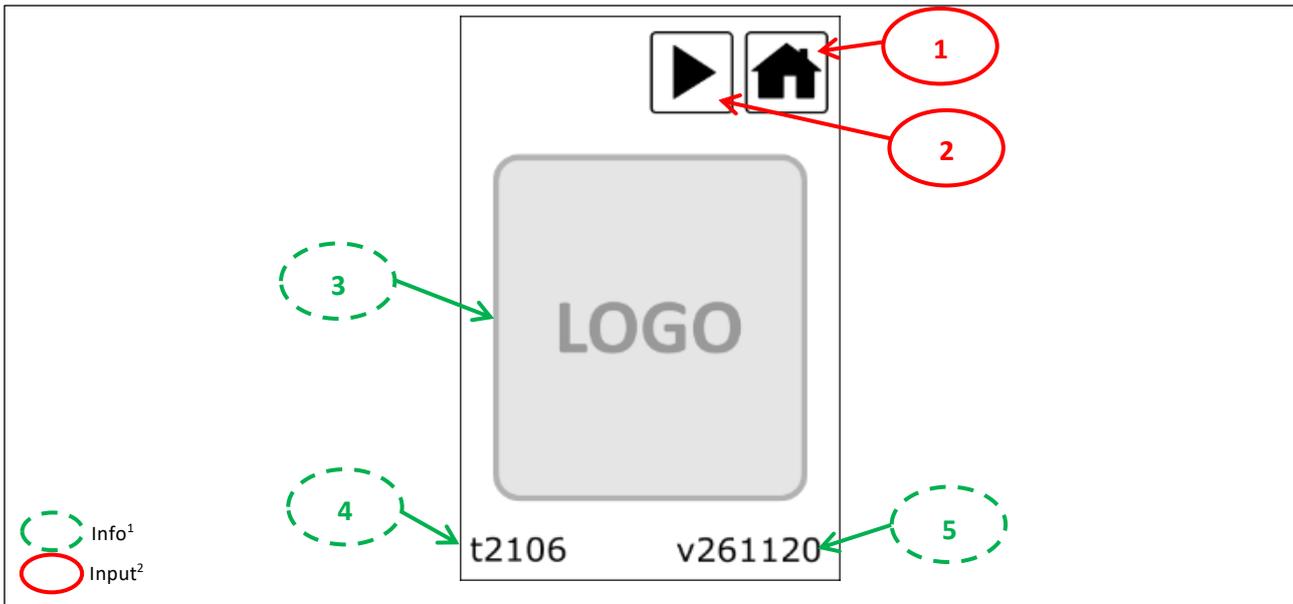
² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

Field	Symbol	Description	Function
1.Symbol		Main screen symbol	Switch to 1.Screen.
2.Symbol		Next screen symbol	Switch to 5.Screen.

3.Field	Date setting [YYYY.MM.DD]
4.Field	Clock setting [HH:MM]
5.Field	1 st day of the week selection. For example, if the 1st day of the week is Monday and today is Wednesday, the entry value should be 3, if the 1st day of the week is Sunday and today is Wednesday, the entry value should be 4

6.Symbol: Key tone Symbol		
Symbol	Description	Function
	Key tone is on.	Switch off the key tone.
	Key tone is off.	Switch on the key tone.

“5.Screen” Symbols: Company Logo



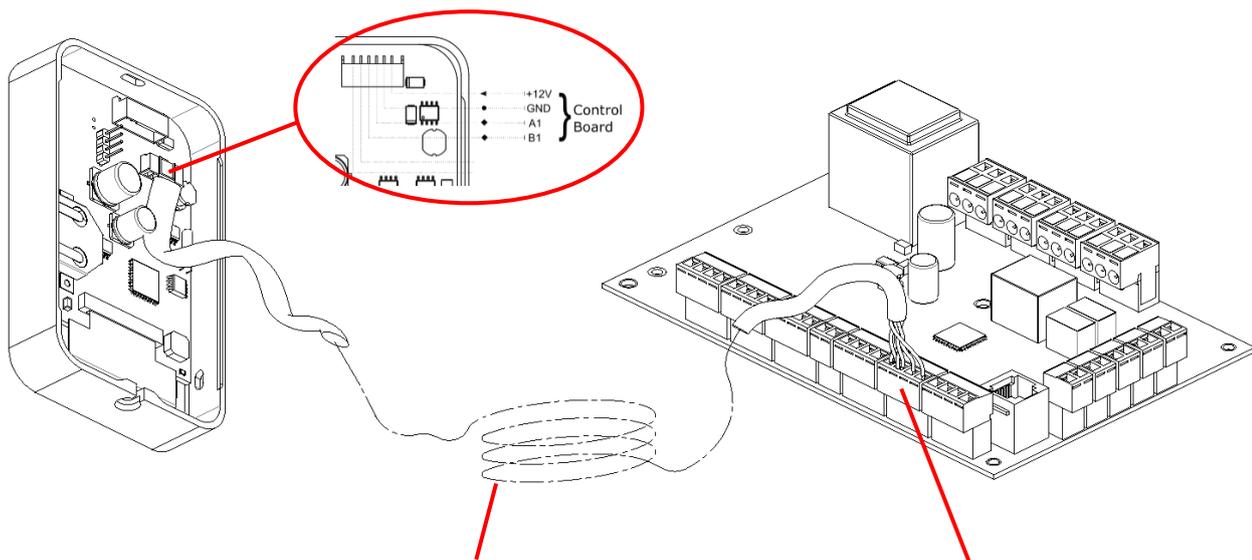
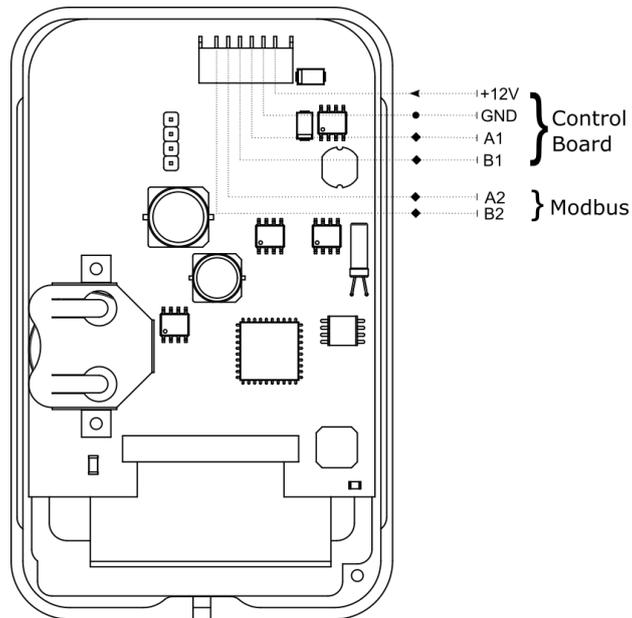
¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

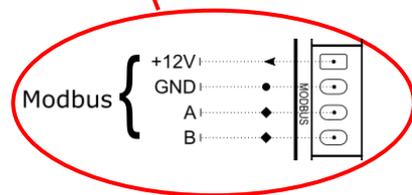
Field	Symbol	Description	Function
1.Symbol		Main screen symbol	Switch to 1.Screen.
2.Symbol		Next screen symbol	Switch to 6.Screen.

3.Field	Company logo
4.Field	Touch Panel theme number.
5.Field	Touch Panel software version number.

1.3. Cable connection

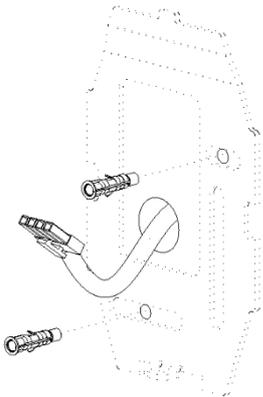


Cable type: Cat6
Maximum length: 50m
+12V: Blue & Blue-White
GND: Brown & Brown-White
A: Orange-White
B: Orange

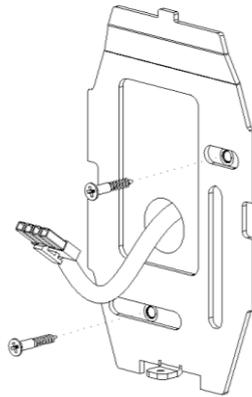


1.4. Surface mounting

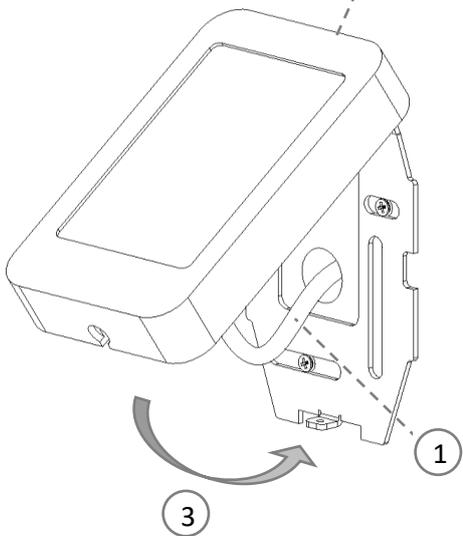
1



2

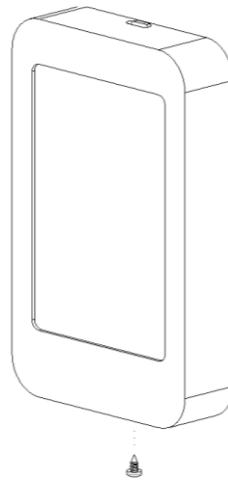


2



3

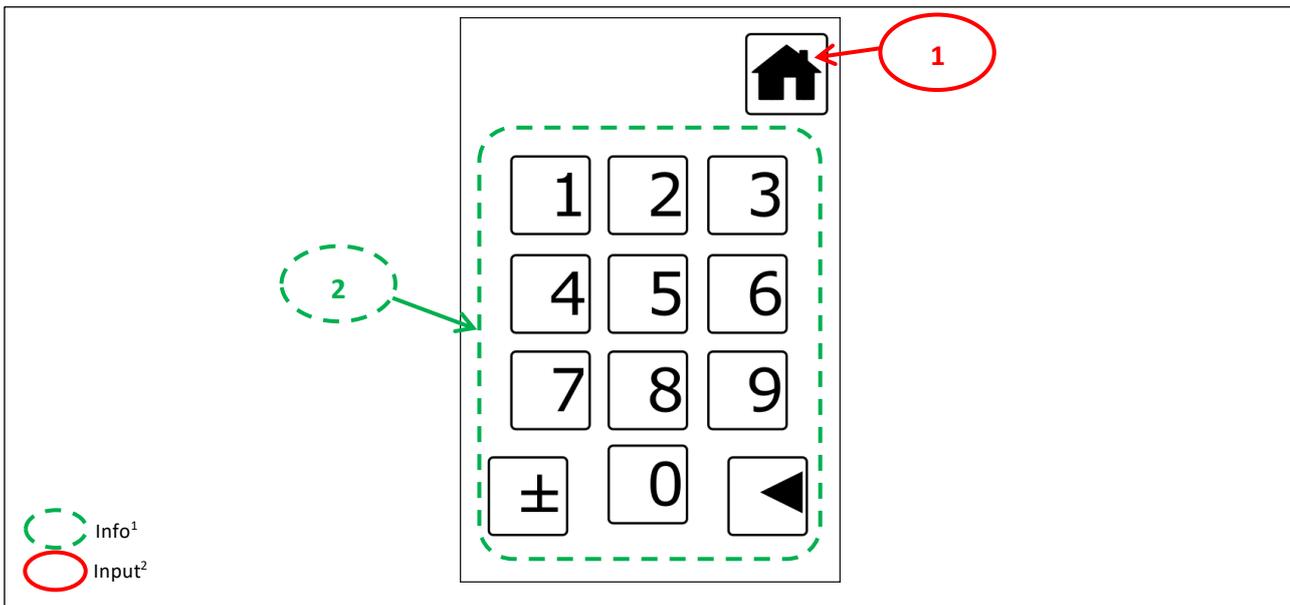
4



SCREENS

6.Screen Service Login Screen	7.Screen I/O Configure	8.Screen Sensor Configure	9.Register Register Configure

“6.Screen” Symbols: Service Login Screen



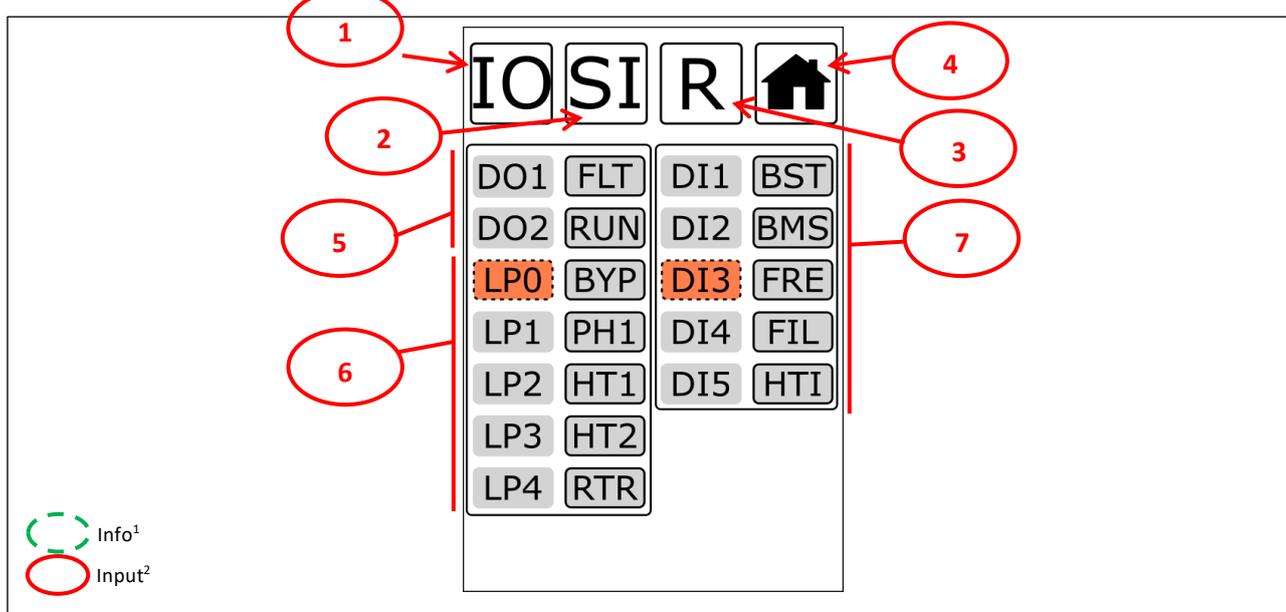
¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

Field	Symbol	Description	Function
1.Symbol		Main screen symbol	Switch to 1.Screen.

2.Field	Password entry
---------	----------------

"7.Screen" Symbols: I/O Configure Screen



¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

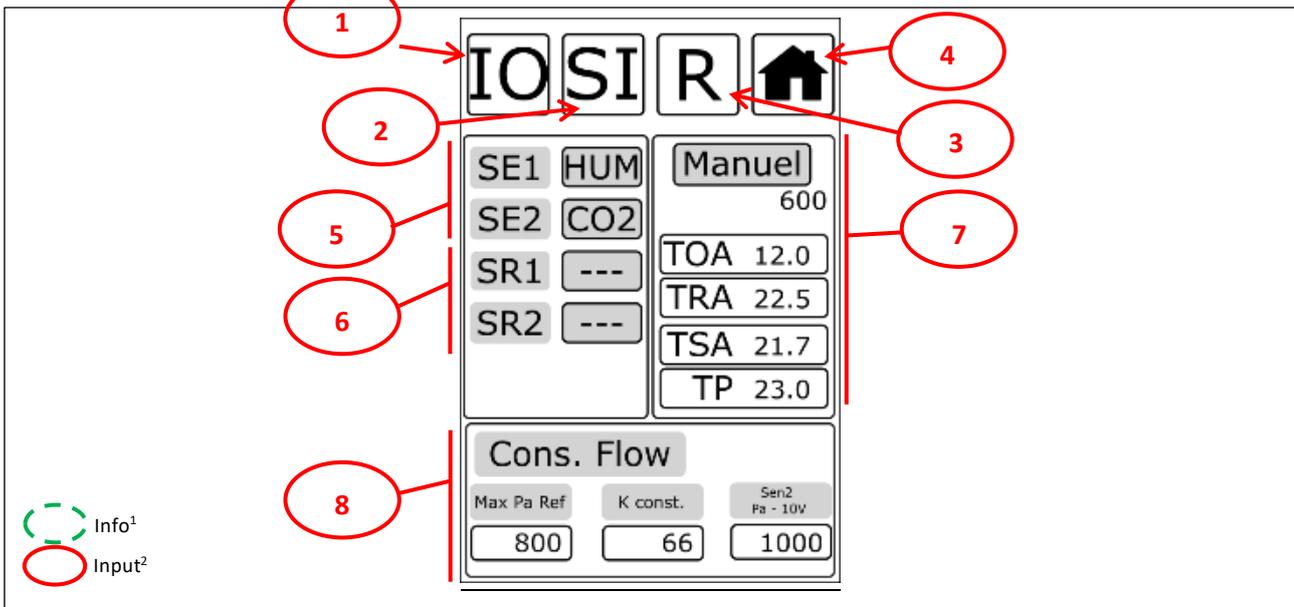
Field	Symbol	Description	Function
1.Symbol		I/O configure screen	Switch to 7.Screen.
2.Symbol		Sensor configure screen	Switch to 8.Screen.
3.Symbol		Register configure screen	Switch to 9.Screen.
4.Symbol		Main screen symbol	Switch to 1.Screen.

5.Field	Outputs selection (dry contact) (DO)
6.Field	Power output selection (PO)
7.Field	Inputs selection (dry contact) (DI)

Inputs Code List (DI)			
Code	Description	Code	Description
---	Not connected	DXH	Freon system pressure failure info (Part II – Section 5.3)
BST	Boost function (Part II – Section 2)	DXL	Freon system pressure failure info (Part II – Section 5.3)
BMS	BMS unit on/off (BMS in) (Part II – Section 8.1)	FI2	Filter-2 mechanical info (Part II – Section 3)
FRE	Fire info (Part II – Section 11)	CWI	Water coil failure info (Part II – Section 5.2)
HTI	Heater failure info (Part II – Section 5.1 and Section 6)	DXI	DX system failure info (Part II – Section 5.3)
FI1	Filter-1 mechanical info (Part II – Section 3)	SDI	Service door info

Outputs Code List (DO)			
Code	Description	Code	Description
---	Not connected	RTR	Rotor heat exchanger (Part II – Section 4.2)
RUN	Unit run out info (Run out) (Part II – Section 8.2)	UVL	Ultraviolet lamp
FLT	Failure info (Fault out) (Part II – Section 8.3)	CWO	Water coil (Part II – Section 5.2)
BYP	By-Pass (Part II – Section 4.1)	DX1	Freon system 1.stage (Part II – Section 5.3)
HT1	Electric Heater 1.stage (Part II – Section 5.1)	DX2	Freon system 2.stage (Part II – Section 5.3)
HT2	Electric Heater 2.stage (Part II – Section 5.1)	FWV	Freon system four-way valve (Part II – Section 5.3)
HT3	Electric Heater 3.stage (Part II – Section 5.1)	FRZ	Frost protection info (Part II – Section 6)
PH1	Electric preheater 1.stage (Part II – Section 6)	SEA	Season info
PH2	Electric preheater 2.stage (Part II – Section 6)	FDf	DX System defrost info

“8.Screen” Symbols: Sensor configure screen



¹ Info symbols are to show the status of the equipment it is in.

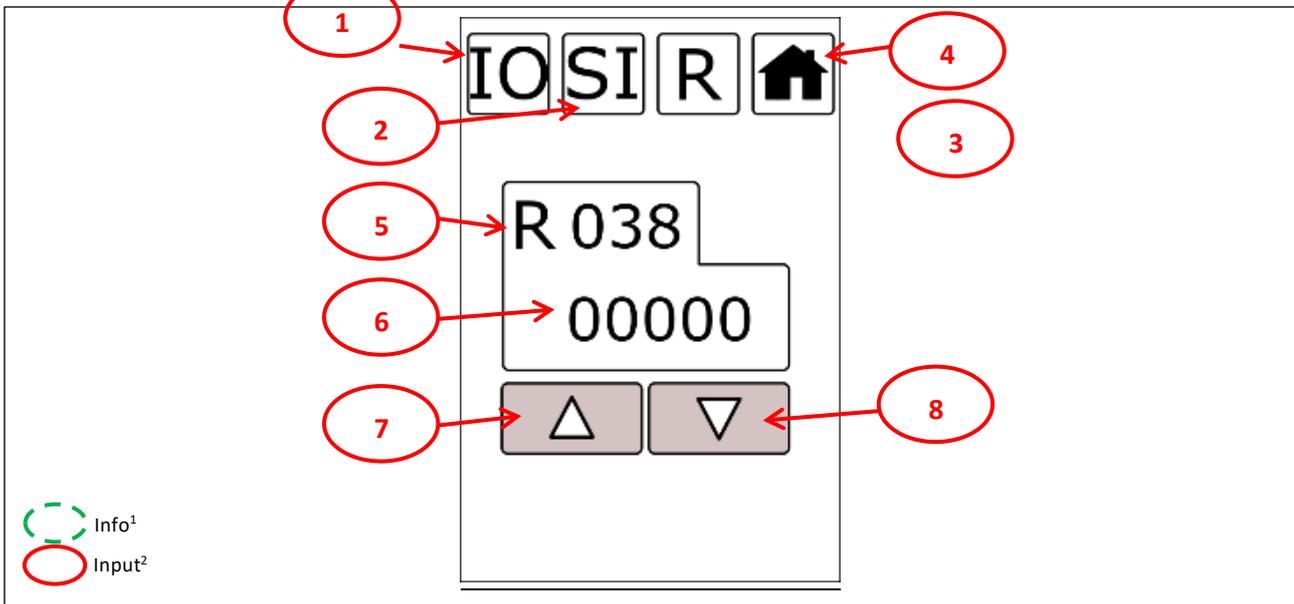
² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

Field	Symbol	Description	Function
1.Symbol	IO	I/O configure screen	Switch to 7.Screen.
2.Symbol	SI	Sensor configure screen	Switch to 8.Screen.
3.Symbol	R	Register configure screen	Switch to 9.Screen.
4.Symbol	Home icon	Main screen symbol	Switch to 1.Screen.

5.Field	Inputs selection (sensor) (AI)
6.Field	RF sensor inputs (RF) selection (not active)
7.Field	Manual temperature login
8.Field	Constant flow function parameters

Inputs Code List (AI)			
Kod	Tanım	Kod	Tanım
---	Not connected	RH	Humidity Sensor (Part I – Section 4.1.2)
CO2	CO ₂ sensor (Part I – Section 4.1.3)	GEN	0~10V sensor (user preference)

“9.Screen” Symbols: Register configure screen



¹ Info symbols are to show the status of the equipment it is in.

² Input symbols are to show the status of the equipment and have active button feature. By tapping on it, the function is changed.

Field	Symbol	Description	Function
1.Symbol		I/O configure screen	Switch to 7.Screen.
2.Symbol		Sensor configure screen	Switch to 8.Screen.
3.Symbol		Register configure screen	Switch to 9.Screen.
4.Symbol		Main screen symbol	Switch to 1.Screen.

5.Field	Register number
6.Field	Register value

Field	Symbol	Description	Function
7.Symbol		Up symbol	Increase existing value.
8.Symbol		Down symbol	Decrease existing value.