# User Manual

**v1.0**

## Touch screen

# ST2

# Index

**1 General description ____ 3**

**2 Working mode ____ 4**

2.1 Introduction ____ 4

2.2 Control icons ____ 5

2.2.1 Lights ____ 5
2.2.2 Dimmers ____ 5
2.2.3 RGB Leds ____ 6
2.2.4 Shutters ____ 6
2.2.5 Thermostats ____ 7
2.2.6 SoniBus ____ 8
2.2.7 Scenes ____ 9
2.2.8 List of available icons ____ 9

2.3 Options menu ____ 10

2.3.1 Time ____ 11
2.3.2 Timers configuration ____ 12
2.3.3 Chronothermostasts configuration ____ 13
2.3.4 Wi-Fi ____ 14
2.3.5 Appearance ____ 15
2.3.6 Cloud ____ 17
2.3.7 Security ____ 17
2.3.8 Settings ____ 18

2.4 Default actions ____ 20

2.4.1 Gesture control ____ 20
2.4.2 List of available default actions ____ 20

# 1 GENERAL DESCRIPTION

The Smart Touch is a full colour capacitive 4.3” touch screen to control and monitor any BUSing installation, using 3D plans, photographs, friendly-icons, etc.

It allows to program up to 4 pages with 8 icons in each page with which to control lights, shutters, thermostats, RGB leds, executing scenes and control any other BUSing installation devices being ideal to work as a room controller.

It incorporates two user levels (normal user and administrator) and the appearance of the pictures, menus and icons shown is completely customizable by the programmer with the programming software SIDE BUSing that allows creating different themes. The appearance theme can be also changed manually by the user or automatically by programmed hours.

General characteristics:

- Admits up to 4 control pages (background: 3D plans, photographs, etc.).
- 8 control icons per page.
- Scenes, on/off, dimming, shutter, thermostats, RGB Leds control.
- Fully customizable themes (icons, background and menus appearance).
- Wi-Fi connectivity for programming and wireless remote control via Android/iOS applications. It also supports Google Home and Alexa.
- Programmable automatic theme change by hour.
- Two user level modes: administrator and standard user.

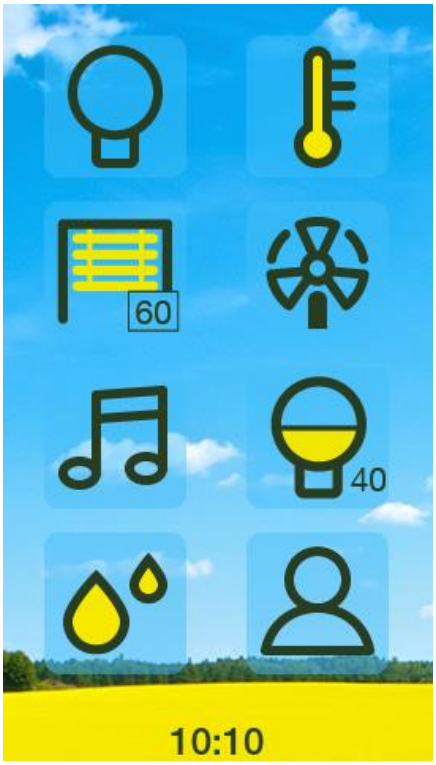
# 2 WORKING MODE

## 2.1 INTRODUCTION

The Smart Touch interface is divided in three zones:

- A central zone where the user find the icons with which to control all the elements of the installation (lights, shutters, thermostats, etc.). It is possible to have up to 4 pages with 8 icons in each page.
- The internal thermostat control interface that it is shown by sliding upwards the main screen (if the Smart Touch has an internal thermostat incorporated).
- An options menu that it is shown by sliding downwards the main screen. In this menu can be configured the visual theme, brightness, Wi-Fi, language, password, etc. Only an Administrator user can have access to the options menu.

You will find below a detailed explanation of each zone of this user interface.



## 2.2 CONTROL ICONS

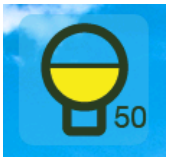
In the following section is explained each of the control functions that can be programmed in the Smart Touch. The available functions could be different depending on the user's needs and the programming done. Ask the programmer / integrator of the home automation system for further information about the possibilities.

### 2.2.1 LIGHTS

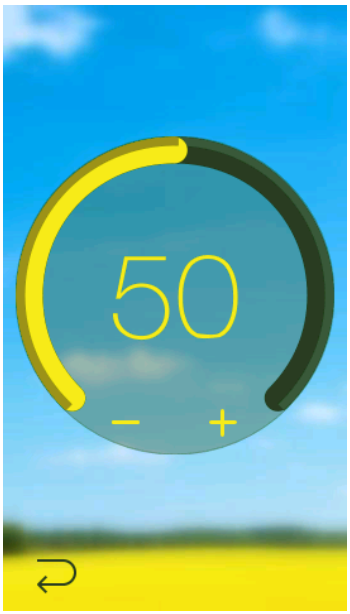
Switch on/off lighting: this icon allows controlling the light of the corresponding room or zone simply by clicking on it. The status of the light is permanently updated and the bulb will be either on or off according to it.

### 2.2.2 DIMMERS

Lightning regulation: this icon represents the current brightness level of a dimmering light.




By clicking on the icon, a control dialogue appears and allows setting a new brightness value by sliding the finger (the command is sent when release). It is also indicated graphically as well as numerically the value (in percentage) of the light intensity.




Press the arrow at the bottom left to go back to the main window.

### 2.2.3 RGB LEDS

RGB lights control: this icon represents the current colour of an RGB led light.

By clicking on the icon, a control dialogue appears and allows selecting a colour from the palette and setting a brightness value by sliding the finger. It is also indicated graphically as well as numerically the value (from 0 to 255) of the brightness and colour intensities.

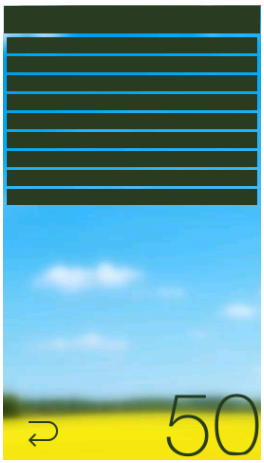
Press the ok button on the right to send a new colour and brightness setting.

Press the arrow at the bottom left to go back to the main window.

### 2.2.4 SHUTTERS

Shutter/Blind control: this icon represents the current position of a shutter or blind.

By clicking on the icon, a control dialogue appears and allows setting a new position value by sliding the finger. It is also indicated graphically as well as numerically the value (in percentage) of the current position.

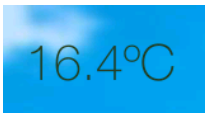



Press the arrow at the bottom left to go back to the main window.

### 2.2.5 THERMOSTATS

External thermostat control: this icon allows controlling an external thermostat of the home automation installation.

By clicking on this icon, a control dialogue appears and allows to switch on/off the thermostat or setting a new set point temperature by sliding the finger over the circular scroll bar (the command is sent when release). The current measured temperature is also indicated at upper left corner (from 0 to 51 °C).




Use the icons below the set point scroll bar to set the working mode of the thermostat.

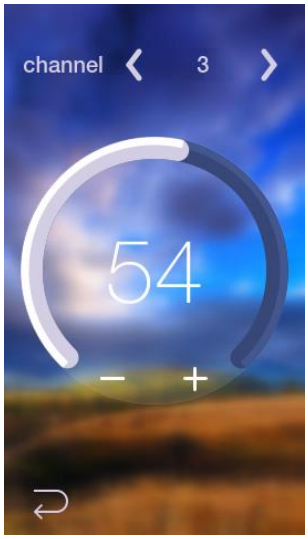
Working mode (from left to right):

- Summer mode: when the set point temperature is lower than the measured one, the thermostat will switch on the cooling system.
- Winter mode: when the set point temperature is higher than the measured one, the thermostat will switch on the heating system.
- Mix mode: Summer and winter mode simultaneously.

Press the arrow at the bottom left to go back to the main window.

### 2.2.6 SONIBUS

It is possible to make a control of SoniBus device from the SmartTouch. From the available screen the channel can be changed (between the four available channels) and vary the volume.



### 2.2.7 SCENES

Scene execution: Scene icons allow executing programmed scenarios or moods, this means a group of actions that are executed simultaneously, for example, switch off all the lights, raise up all the shutters, etc.

### 2.2.8 LIST OF AVAILABLE ICONS

The available functions could be different depending on the user's needs and the programming done. Ask the programmer / integrator of the home automation system for further information about the possibilities.

Icons in page

| | |
|---|---|
| 1 | 2 |
| 3 | 4 |
| 5 | 6 |
| 7 | 8 |

| Page 1 | | | |
|---|---|---|---|
| Position | Icon | Name | Function |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |

| Page 2 | | | |
|---|---|---|---|
| Position | Icon | Name | Function |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |

| Page 3 | | | |
|---|---|---|---|
| Position | Icon | Name | Function |

| | | | |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |

| Page 4 | | | |
|---|---|---|---|
| Position | Icon | Name | Function |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |

## 2.3 OPTIONS MENU

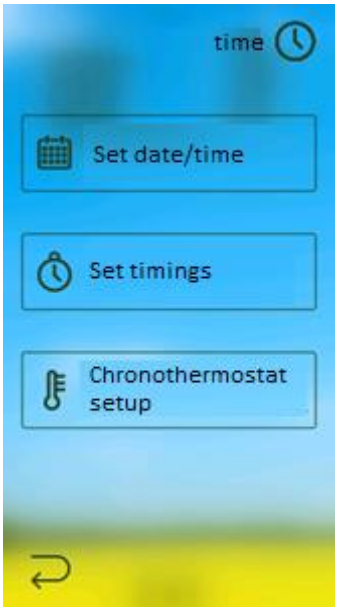
The options menu allows configuring the appearance, brightness or language of the Smart Touch among other things. If the menu is unblocked (administrator mode disabled) any type of user will be able to change any configuration. In this case, use the bar at the top of the main window to slide down the menu.

It is possible to block this menu depending on the programming of the device, so it can be only available for administrators. If the menu is blocked (administrator mode is enabled) press in the centre of the main window for 5 seconds approximately and use the keyboard to enter the access password.

The options menu shows the following 6 submenus that are explained next:

### 2.3.1 TIME

The Smart Touch can work as date and time slave in the BUSing bus by receiving the corresponding data by telegrams from any other BUSing clock.




#### 2.3.1.1 SET DATE/TIME

The current date and time can also be configured manually with this option of the menu. Set the desired values using the left and right arrows for every field as shown next:

Press the arrow on the left to go back to the main window without saving the date and time changes.

Press ok on the right to accept the new configuration. By doing this, the Smart Touch will send the date and time to the other devices of the home automation system.

### 2.3.2 TIMERS CONFIGURATION

Smart Touch Plus can execute macros automatically, programmed weekly by the user using this menu. A macro is an event or group of events that can be executed simultaneously. To program a scene, this must have been programmed by the integrator.

The options are explained below:

- Number: indicates the timer number configurated. Up to 10 timers available.
- Enable: set *yes* if the programming is wanted to be executed. Set *no* if the timer is wanted to be disabled temporally.
- Macro: allows to set the scene to be executed. On the next section of this document, are shown all scenes available.
- Days: it is possible to activate/deactivate the week days on the scenes will be executed, on the horizontal letters/hyphens. Only pressing each hyphen to activate the corresponding day (hyphen=deactivated day / initial letter= activated day).
- Day and minute: time of the day when the programming will be executed.

### 2.3.3 CHRONOTHERMOSTASTS CONFIGURATION

Next submenu, chronothermostat can be defined by the user to time operating configurations of internal thermostat, with a weekly period.

- Number: indicates the timer number configurated. Up to 10 timers available.
- Enable: set *yes* if the programming is wanted to be executed. Set *no* if the timer is wanted to be disabled temporally.
- Days: it is possible to activate/deactivate the week days on the scenes will be executed, on the horizontal letters/hyphens. Only pressing each hyphen to activate the corresponding day (hyphen=deactivated day / initial letter= activated day).
- Day and minute: time of the day when the programming will be executed.
- Mode: this is the mode to which the thermostat changes when the timer is executed. This can be heat, cold, auto or off.
- Set point: is the setpoint temperature that is stablished to this thermostat programming.

Example: on the previous image, from Monday to Friday, heating must be on at 21ºC at 19:15.

### 2.3.4 WI-FI

The Smart Touch Plus incorporates Wi-Fi connectivity which allows the user to control the home automation system locally and/or remotely through iOS and Android devices. This connectivity is also necessary to download the programming from SIDE to the screen, by the programmer.

On the WIFI configuration screen is possible to move vertically to access to all programmable parameter of this kind of connection. All the fields are editable by pressing on them and using the emerging keyboard or using the lateral arrows. Below, some sample pictures are shown:

#### 2.3.4.1 AP (ACCES POINT MODE)

If it is configurated as *No*, the device can be connected to any available Wi-Fi net reachable from the screen. On the contrary, if A*p* is set as *Yes,* the device works as access point creating its own Wi-Fi net to which any PC, Smartphone or Tablet can be connected to in local mode.

The Wi-Fi network is generated by the Smart Touch Plus with the name (SSID) and password configured in this menu. This network has no internet access, so it is not possible to navigate through the web or control the home automation system from outside the house or installation.

The type of security of the network generated is WPA and the password must have at least 8 characters.

#### 2.3.4.2 DHCP

Configure DHCP as *Yes* when the device is connected to an existinf Wi-Fi net, and the TCP/IP configuration (IP address, subnet mask, gateway) is made by the router. Configure DHCP as *No* when the TCP/IP is fixed and set manually.

When DHCP is configurated as Yes, wait a minute after connecting to the net to see the IP assigned by the router.

The Wi-Fi access can be enabled/disabled by pressing the on/off button on the left top of the screen.

Press *OK* on the right at the bottom to accept every configuration setting and creating a net.

Press the arrow on the left to go back to the main window without saving changes.

### 2.3.5 APPEARANCE

In this option menu, the appearance of the screen icons and colours can be changed by selecting different themes according to the customer likes.

The Smart Touch incorporates 3 default themes (predefined) to change the appearance of the screen with different colours and icon styles, but it can also incorporate another 3 themes that can be customized by programming (ask the administrator of your home automation system).

#### 2.3.5.1 Change automatically

The device can show a fixed theme or a list of themes that will change automatically by programmed hours, to do so, change the appearance mode to auto and select the time of the day to change. The Smart Touch will show the programmed themes every day at the configured times for each one.

To select a theme to be included in the auto change sequence do click on the upper right corner of it.

Then write the desired hour of change with the keyboard by clicking over the clock at the bottom of each theme.

Click ok at the bottom right corner of the keyboard to accept the settings and go back to the main window saving changes with the arrow button.

#### 2.3.5.2 Change by bus telegram

The appearance can also be changed by bus telegrams from any other device of the home automation system. Ask the programmer / integrator for further information about the possibilities.

### 2.3.6 CLOUD

This option allows to create an account on the cloud to control the home automation installation through internet, using the Ingenium official Apps. The control applications are free and can be found in the corresponding markets (the Android app is called aSC Ingenium and it is available in Google Play; the iOS app is called iSC Ingenium and it is available in the App Store). See their corresponding manuals for further information.

Pressing *New user and* define user name and password to the cloud account using the emerging keyboard once the edit field is pressed. These datas are used on the iOS and Android Apps to add and control an installation on remote control.

Press *OK* to confirm and start the process of uploading the project to the Ingenium server. The device will reboot automatically after this operation, so the user account will be available immediately for a remote control of the installation.

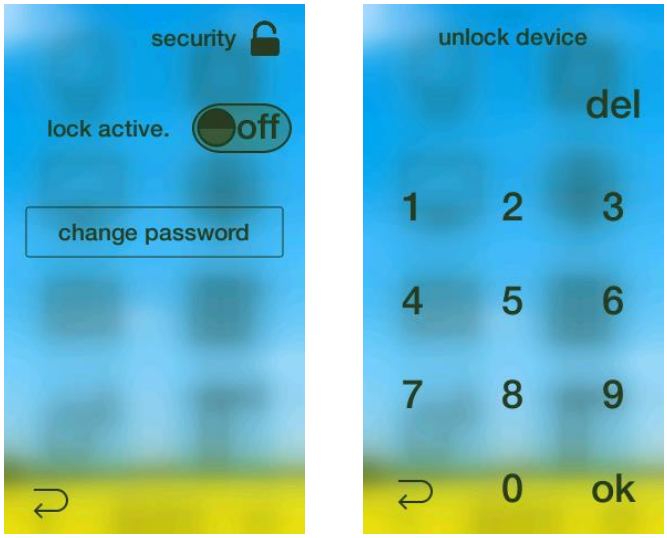
Once the account is created on the cloud, the user name and the password (id) will be shown here. Press Delete user to delete the account from Ingenium server or to change the user name and password.

Now, the user and password can be used on the Ingenium official apps for iOS and Android.

### 2.3.7 SECURITY

The Smart Touch can be locked with a 4 digits password to avoid its use. Do click on the corresponding button to enable or disable the lock of the screen (the password is required for any change of this function).

The default password is 1234 and it can be changed by clicking on the corresponding button in the centre of the window.




If the lock mode is enabled, the screen will ask for the password every time that changes from standby to active mode. If the lock mode is disabled, the Smart Touch can be activated and therefore used by anyone just by clicking on the screen.

### 2.3.8 SETTINGS

#### 2.3.8.1 Brightness

This option of the menu allows configuring the brightness behaviour of the screen backlight. There are three parameters to configure that are explained next:

Active [3 - 15]: Is the brightness level when the screen is being used.

Standby [0 - 15]: Is the brightness level that it is set after a period of idle time. Set this value to 0 to switch off the brightness completely when the Smart Touch is not being used.

Time [5 - 60 seconds]: Is the time that the screen waits to set the standby brightness level since the last pulsation.

Press the arrow on the left to go back to the main window without saving changes. Press ok on the right to accept the new configuration.

Press the arrow on the left to go back to the main window without saving changes.

Press ok on the right to accept the new configuration.

#### 2.3.8.2 Language

Use this menu to change the presentation language of the Smart Touch. Choose between English, Spanish and French by clicking on the left and right arrows.

Press the arrow on the left to go back to the main window and accept changes.

## 2.4 DEFAULT ACTIONS

### 2.4.1 GESTURE CONTROL

The Smart Touch allows executing some programmed actions by gesture control. When the screen is off or locked it is possible to execute some actions without needing to unlock it, just sliding the finger upwards or downwards.

The available functions could be different depending on the user's needs and the programming done. Ask the programmer / integrator of the home automation system for further information about the possibilities.

### 2.4.2 LIST OF AVAILABLE DEFAULT ACTIONS

The available functions could be different depending on the user's needs and the programming done. Ask the programmer / integrator of the home automation system for further information about the possibilities.

| Control gesture | Function(s) |
|---|---|
| Slide upwards | |
| Slide downwards | |

Parque Tecnológico de Asturias, Parcela 50,
33428 Llanera – Asturias - Spain

Tel (+34) 985 118 859

Fax (+34) 984 283 560

ingeniumsl@ingeniumsl.com
www.ingeniumsl.com