WiFi configuration tutorial

SmartPID smart thermostat MQTT server architecture

smartPID Smart thermostat

MQTT

WiFi connection

home router

android dedicated control app

public internet

3G/4G remote access

mqtt broker

IoT use cases
- dashboard monitor
- remote management
- notification (mail, twitter)
- chatbot
- IFTT and other 3rd party service integration
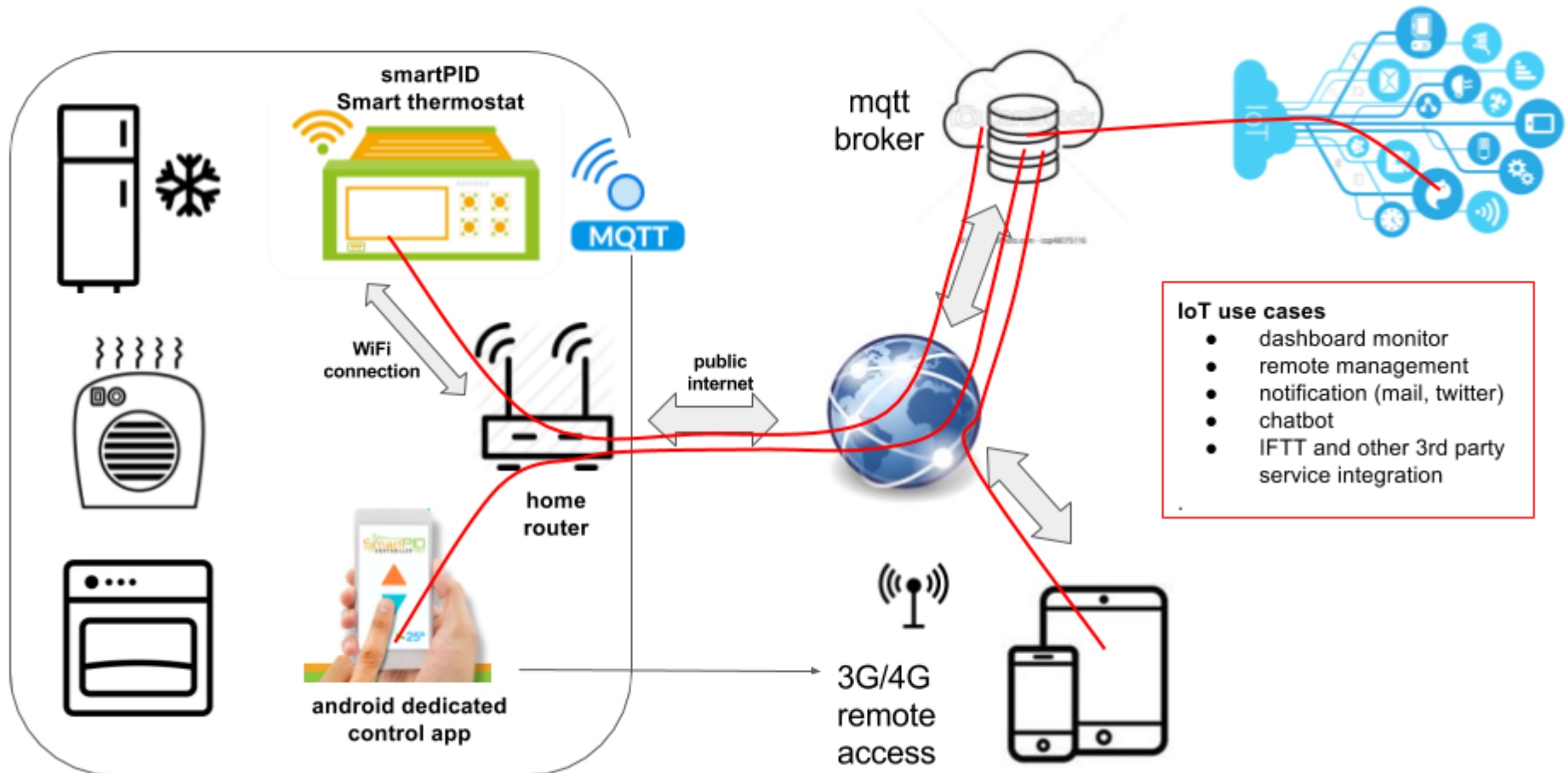
SmartPID smart thermostat WiFi config and remote server connection

In order to connect SmartPID controller to home WiFi network and to remote server and to the smartphone app 3 basic operation are need

SmartPID account creation (sign-up via app)

WiFi configuration and provisioning

SmartPID pairing with the app using serial number

Credentials need to configure all the elements

Following data are need to coplete the 3 steps
Make sure to write correctly (pay attention to capital letters, unwanted space, O and 0 etc..

WiFi home network
- SSID (WiFi network name)
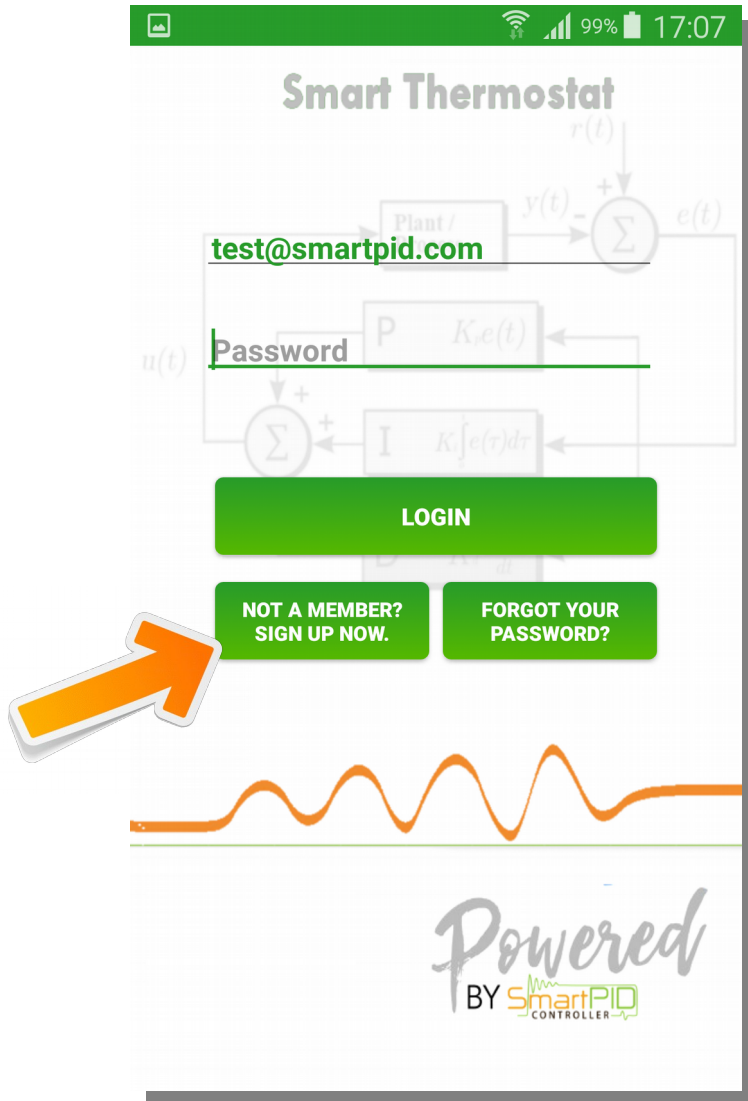- Password

SmartPIDa account
- Login
- Password

SmartPID serial number
- 14 char unique string [visible on boot screen]

SmartPID account creation

step 1.1

1. Start SmartPID smart thermostat app
2. Perform Sing-up process by pressing
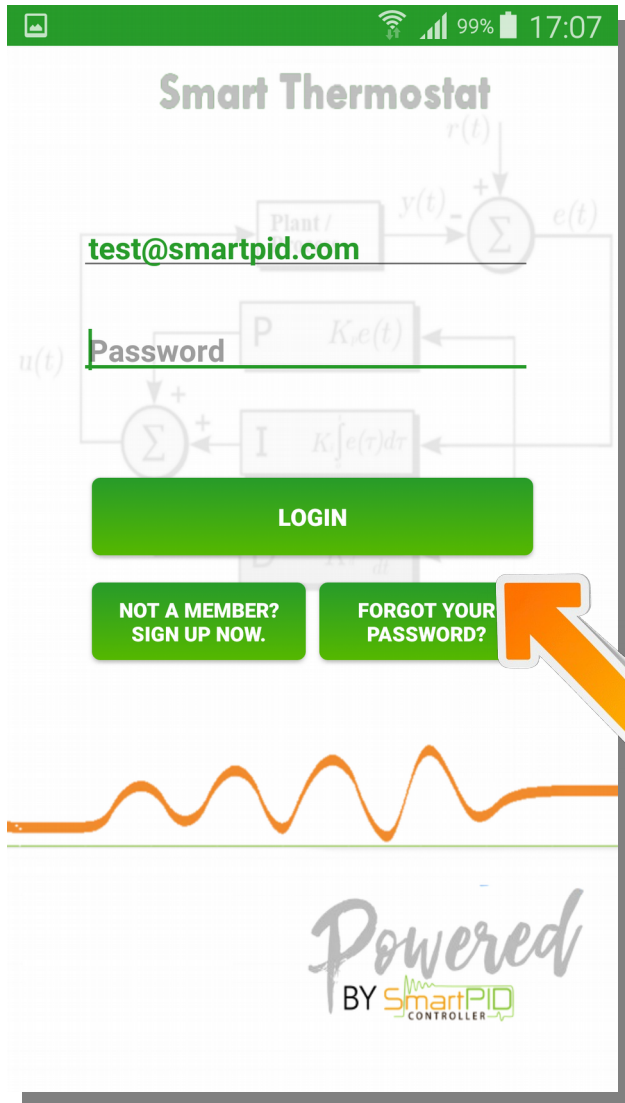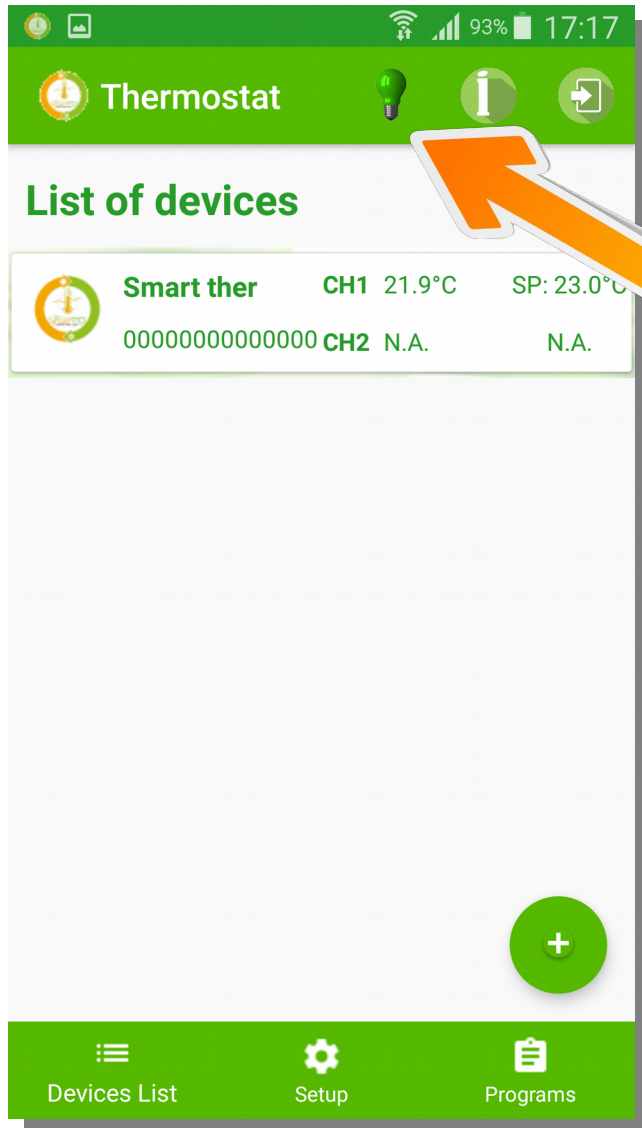   **NOT A MEMBER? SIGN UP NOW**

step1.2

1. Insert valid email (need for recovery process)
2. Insert a personal password
3. Note the credentials for step 2

step1.3

1. Login using credentials created
2. Press **LOGIN** to connect to the server

step1.4

1. Verify the connection status trough the green light on the top bar
2. In case of red light check again credentials and internet connectivity

SmartPID WiFi config & provisioning

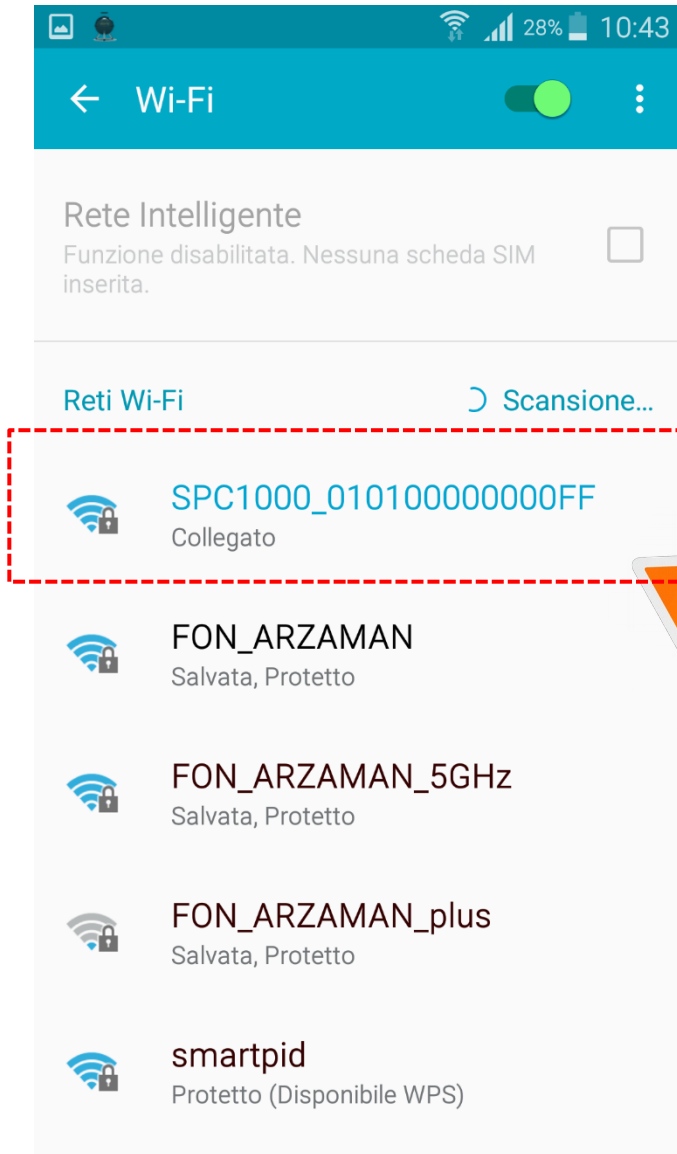1. Navigate to configuration connectivity/log configuration menu

2. Configure "Wi-Fi mode" in AP mode
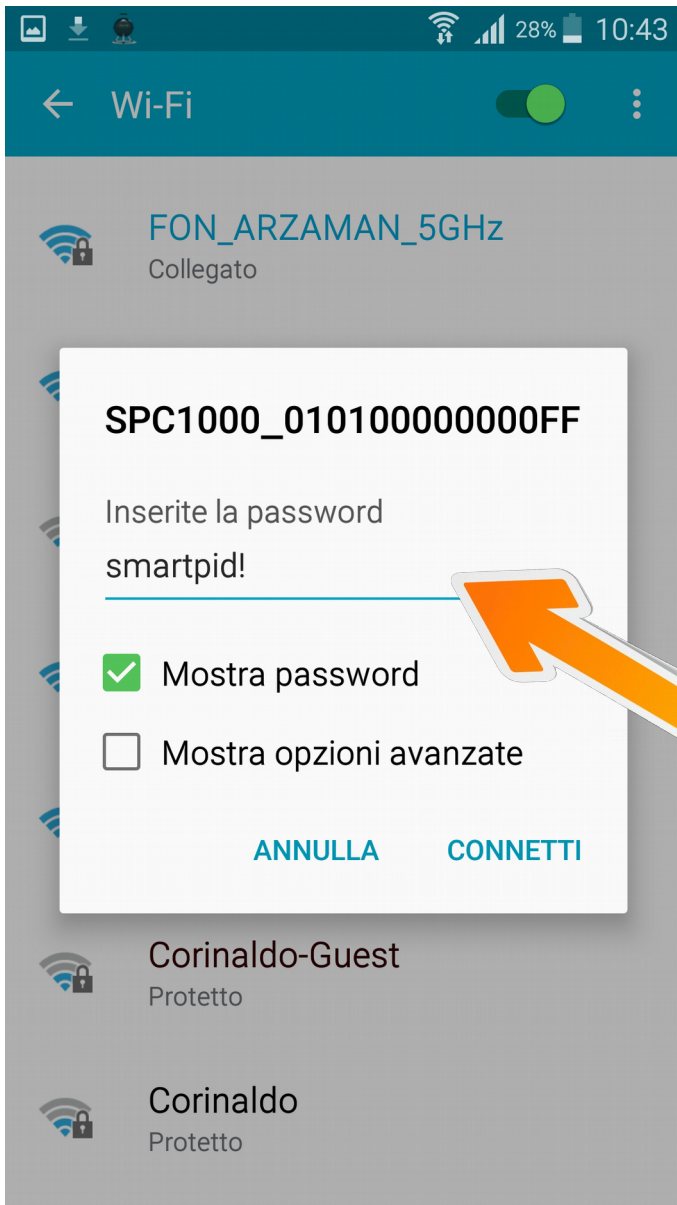
step2.2

1. From smartphone , table or laptop scan the WiFi network
2. Highlight the SPC1000_XXXXXXXX
3. Select the special network and connect

NOTE it's strongly suggested to disconnect smartphone from 3g/4g connection during the whole operation

step 2.3

1. Connect to WiFi network
   SPC1000_XXXXXXXXXXXXXXXXX
2. Default password is **smartpid!**

SmartPID Wi-Fi Configuration

SSID:
smartpid

Password:
smartpid01

MQTT Broker IP Address:
18.196.43.33

MQTT Broker Port:
1883

MQTT User Name:
test@smartpid.com

MQTT Password:

Local Server Port:
80

Serial Baud Rate:
57600

step2.4

1. Open any browser (chrome or other)
2. Input in the address bar following address
    192.168.4.1
3. You will be redirect to a landing page with a text form

SmartPID Wi-Fi Configuration

SSID:

smartpid

Password:

smartpid01

MQTT Broker IP Address:

18.196.43.33

MQTT Broker Port:

1883

MQTT User Name:

test@smartpid.com

MQTT Password:

Local Server Port:

80

Serial Baud Rate:

57600

Save

step 2.5

Username e Password
WiFi home network

Server IP addredd and port
18.196.43.33

SmartPID account
username and PWD
Created in step 1

Save data
SmartPID will "reboot"

step 2.6

1. Go back to SmartPID menu WiFi/MQTT
2. Configure "Wi-FI mode" as Client
3. Verify SSID e PWD of your home WiFi network
4. Verify "connected" connected status and assignment from your home router of a valid IP address

MQTT Broker————
IP   160.153.225.184
Port   1883
      User Name
      Password
      Client Id

Logging————
Log Mo   OFF   WiFi
Sample   WiFi   5
Status   USB
      WiFi+USB

Logging Status————
EEPROM Mem   Empty
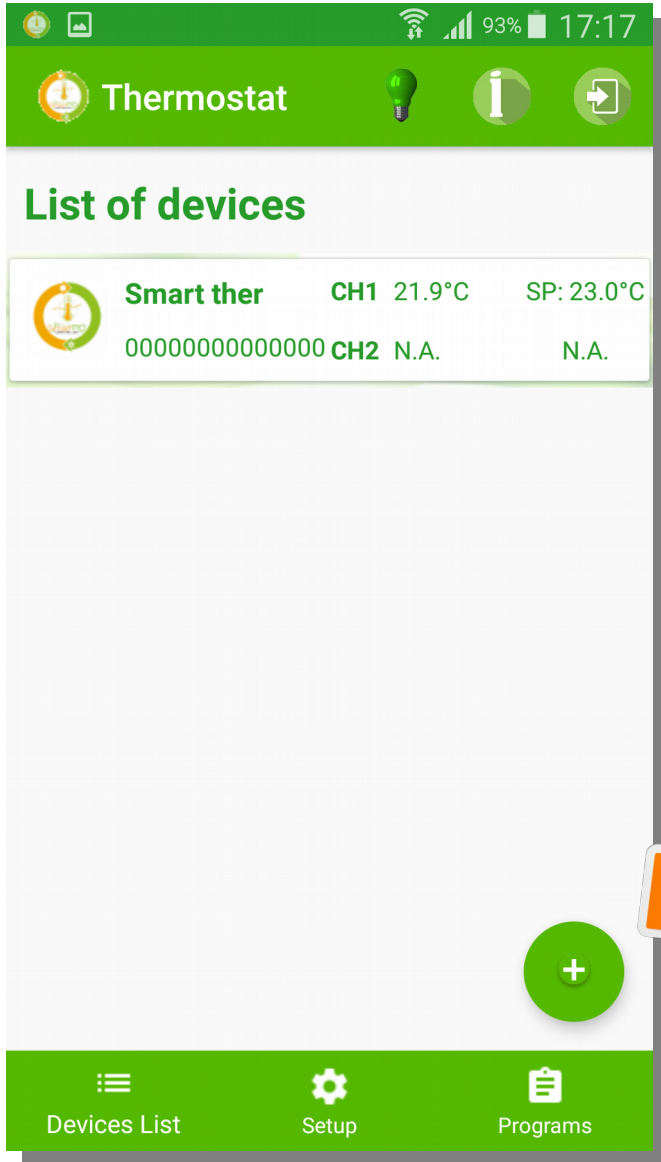MQTT Connection   OK

step2.7

1. Go to MQTT broker configuration menu and verify the credentials stored
2. Go logging menu and configure "Log Mode" via WiFi
3. Configure logging interval (Min Sample Time 5s)
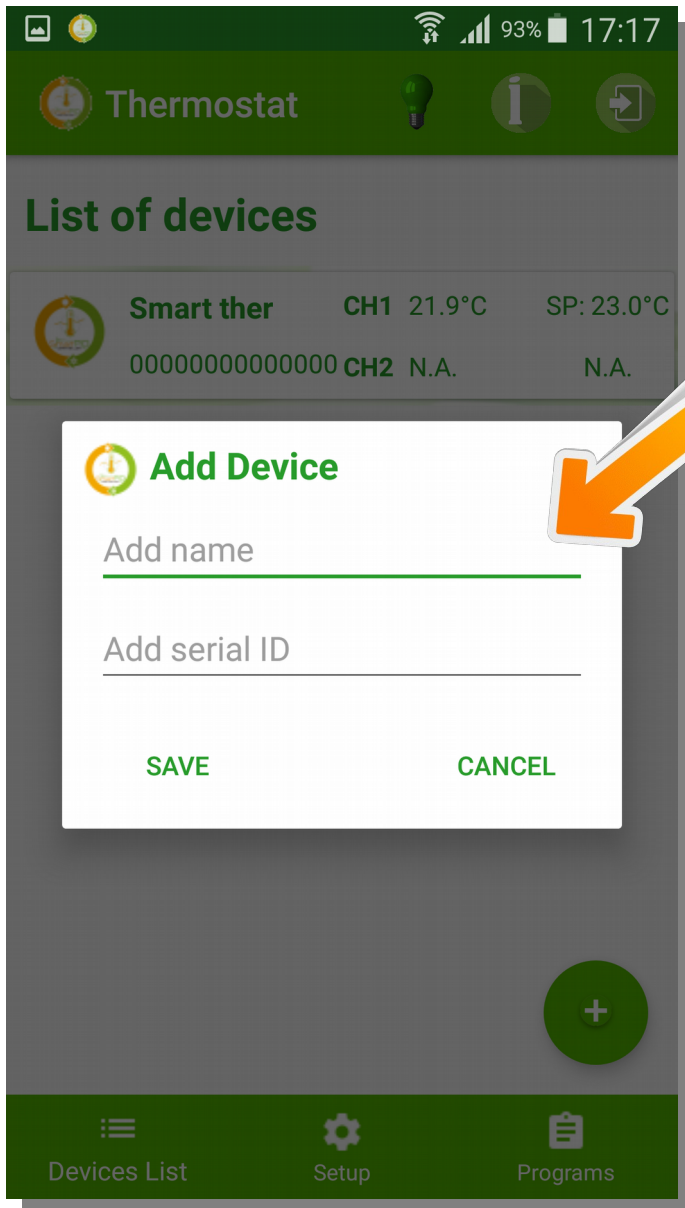4. Verify MQTT connections status l

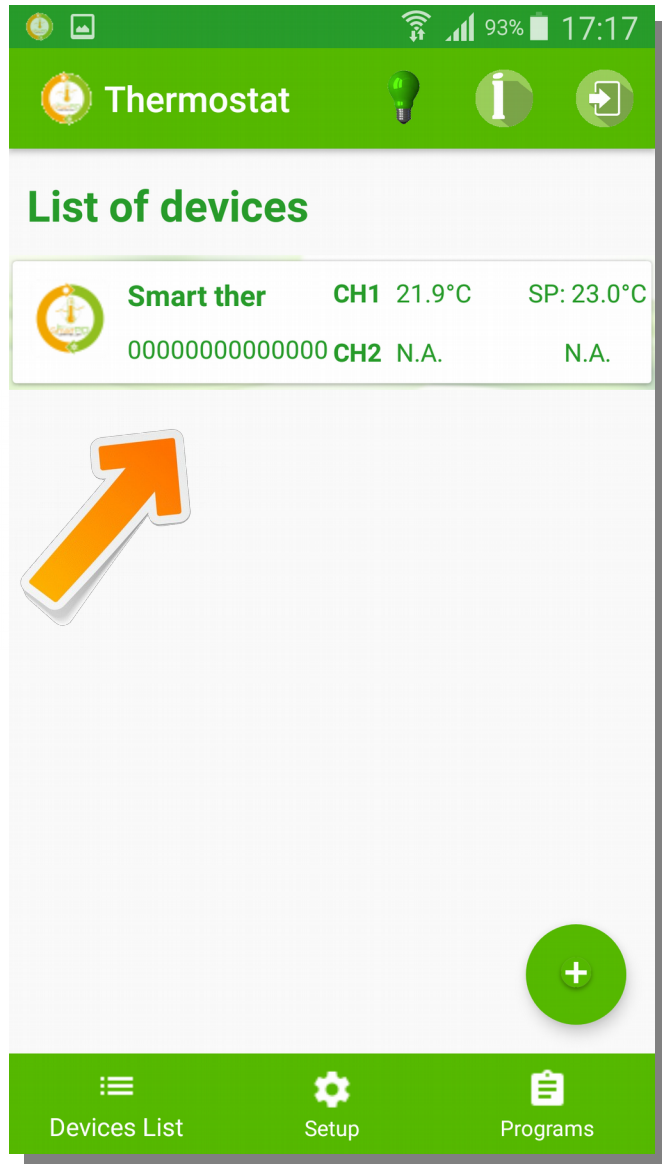# SmartPID pairing with the app via serial number

1. You can add any number of remote controlled smartPID adding to your device list.
2. Press button to add a new one

step3.2

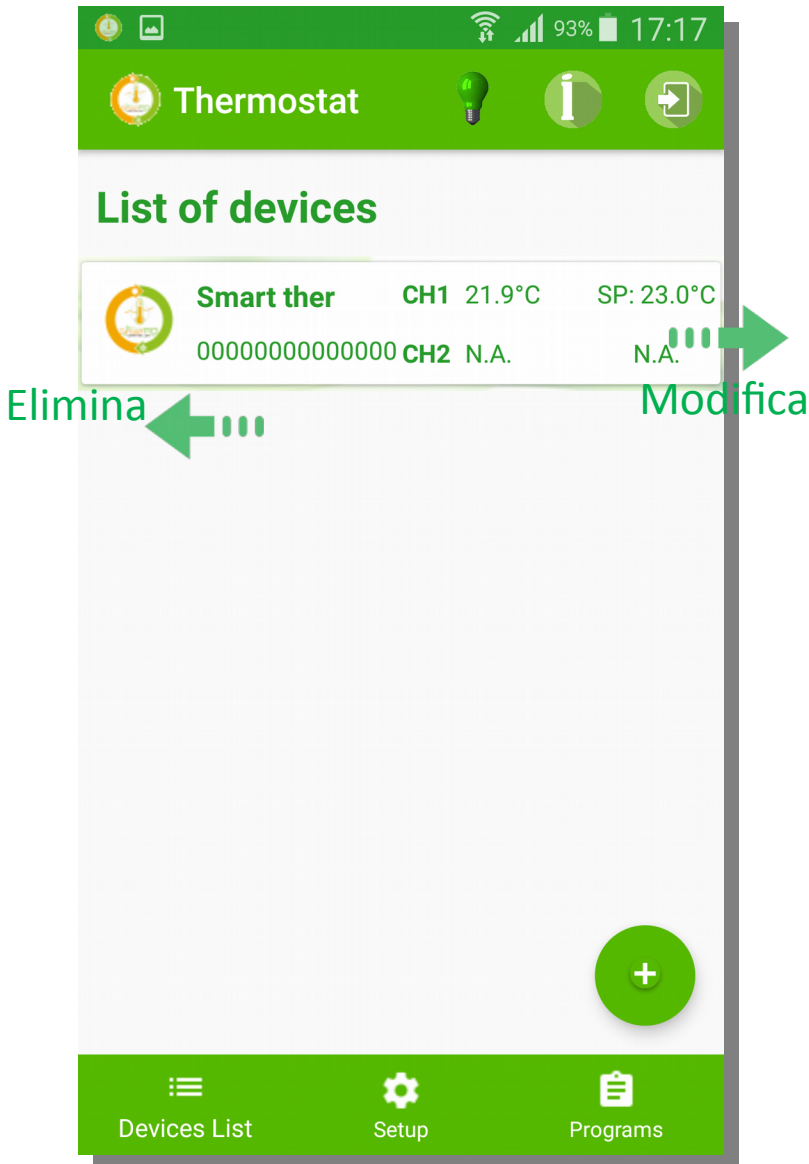1. Insert a mnemonic name
2. Insert serial number string that is displayed during boot sequence (14 chars)
3. Press **SAVE**

step 3.3

1. The new smartPID controller has been added

step3.4

1. It's possible to remove a device sliding left
2. It's possible to modify information sliding right