

How configure an OUTPUT on Andruino App

31/10/2013

Before adding sensor/control check if all the network setting are done and if AndruinoApp is communicating with Arduino board.

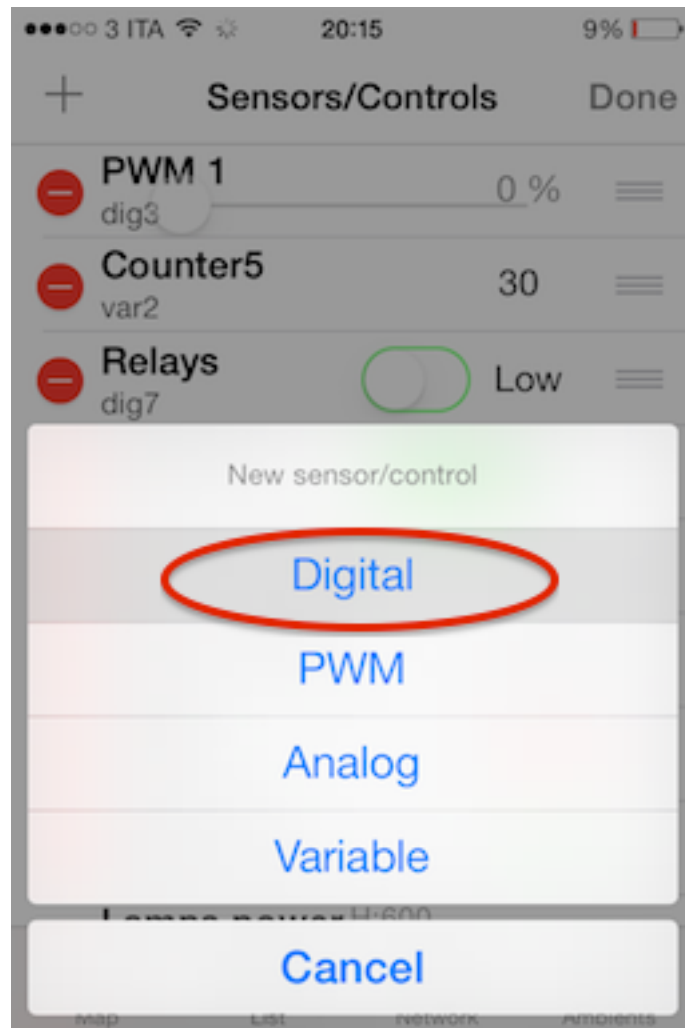
To check the correct communication the below bar has to became green. This is important to load all the used channels in Andruino App array.



On Sensor/Control list tap edit and after +. This is used to add a Sensors/ Controls to your list.



Select Digital PIN:



This is the PINS configurations view:

Output configuration mode:

1. Choose the digital name as you want: Sensor 13 or relay 1 or etc..
2. **Arduino pin group**: by default is **Arduino_io**. Different options:
 - **Arduino_io**: means that you are using the IO from your Arduino board
 - **Arduino_var**: means that you are using some local variable from your Arduino board (you can define variables inside the sketch)
 - **XBee_io**: you can use IO from ZigBee
3. Now you can select the desired channel tapping in the “**Arduino I/O name**”

—> Tap on “dig0”:

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[Back](#) **New Digital pin** [Save](#)

Sensor name:

Arduino pin group: [arduino_io](#)

Arduino I/O name: [dig0](#)

Pin mode:

Pin value:

Sensor state:

Sensor configuration

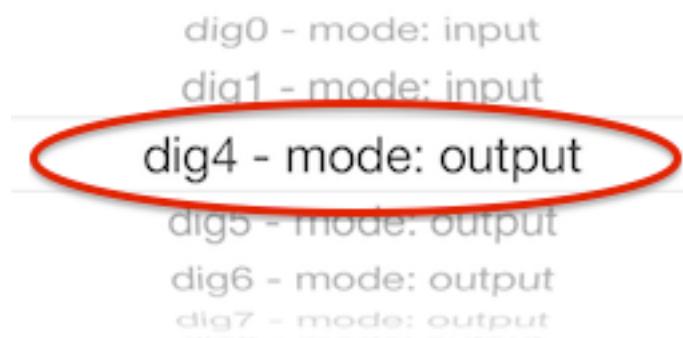
Map List Network Ambients

Using the picker, you will see that all the digital channels will follow the PINS assignment configured in your sketch.

In this case, Arduino sketch has:

- digital0: input
- digital1: input
- digital2: not here because maybe is configured as other (ex: pwm or not used)
- digital3: not here because maybe is configured as other (ex: pwm or not used)
- digital4/5/6/7/...: output

—> select the dig4 for your OUTPUT:



Coming back to PINS configuration page, you can see that:

- **Arduino I/O name: dig4 (channel selected)**
- **Control type: Switch (type of control). It can be:**
 - Switch (to set on/off)
 - Push button (to create a pulse of 1 sec). The duration can be changed by sketch.

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[Back](#) Digital pin detail [Save](#)

Sensor name:

Arduino pin group: [arduino_io](#)

Arduino I/O name: [dig4](#)

Control type: [Switch](#)

Pin mode:

Pin value:

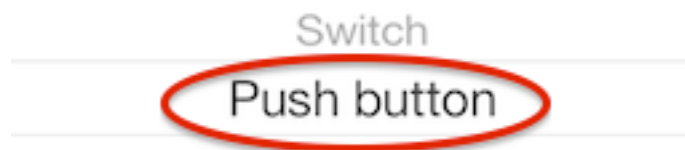
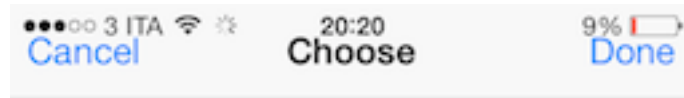
Sensor state:

Sensor configuration

Map List Network Ambients

Tapping on **Control type**, you can modify it with the picker:

- Switch
- Push button



When a PINS is selected as OUTPUT you can assign, for each output state, a name.

From the PINS configuration view, tap on “Sensor configuration” as below:

3 ITA 20:21 9%

[Back](#) Digital pin detail [Save](#)

Sensor name:

Arduino pin group: [arduino_io](#)

Arduino I/O name: [dig4](#)

Control type: [Push button](#)

Pin mode:

Pin value:

Sensor state:

Sensor configuration

Map List Network Ambients

Modify high state and low state name. In the below case, I'm assigning:

ON: when the output is high (5V)

OFF: when the output is low (0V)



Coming back to Sensors/Controls list, you can see your new OUTPUT, called Sensor 13. You can move it and you can position it on the map.

