

Kitronik green house

configurer "LED et ZipLed-Water
Pump-Prong..."

first step

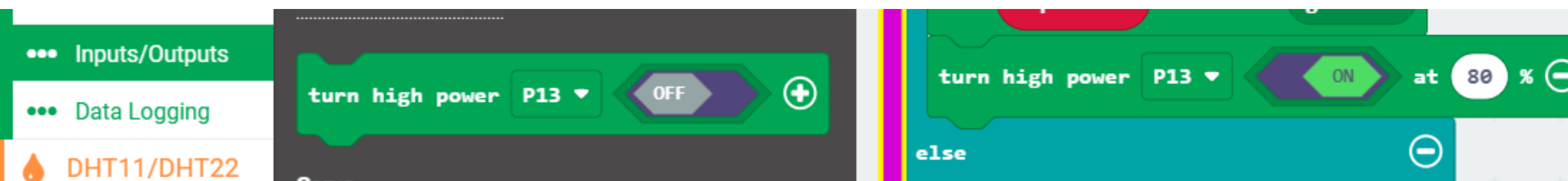


connecter

WHATER PUMP

VCC VCC (5V) +

GND GND -



*vous devez être sûr de
connecter VCC avec 5V
*si vous modifiez un port PIN,
vous devez modifier le code



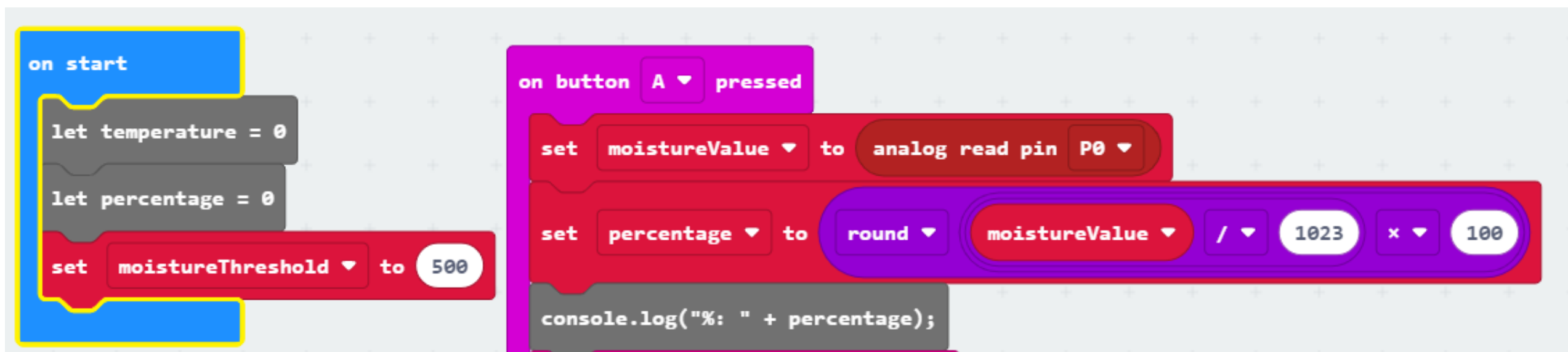
connector

Prong

VCC VCC (3V)

0 Pin 0

GND GND



*si vous modifiez un port PIN,
vous devez modifier le code

Search...

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on start

let temperature = 0

let percentage = 0

radio set group 3

set moistureThreshold to 500

set zipLEDs to Smart Greenhouse with 8 ZIP LEDs

set zipStick to zipLEDs range from 3 with 5 LEDs

on logo touched

set temperature to Read Temperature in °C

console.log("Temperature: " + temperature + "°C");

show number temperature

on button A+B pressed

turn high power P13 OFF at 80 %

on button A pressed

set moistureValue to analog read pin P0

set percentage to round moistureValue / 1023 × 100

console.log("%: " + percentage);

radio send number percentage

zipLEDs show

if percentage ≤ 50 then

zipLEDs set brightness 12

zipLEDs set color green

turn high power P13 ON at 80 %

else

zipLEDs set color red

turn high power P13 OFF

Code

[télécharger l'extension Greenhouse](#)

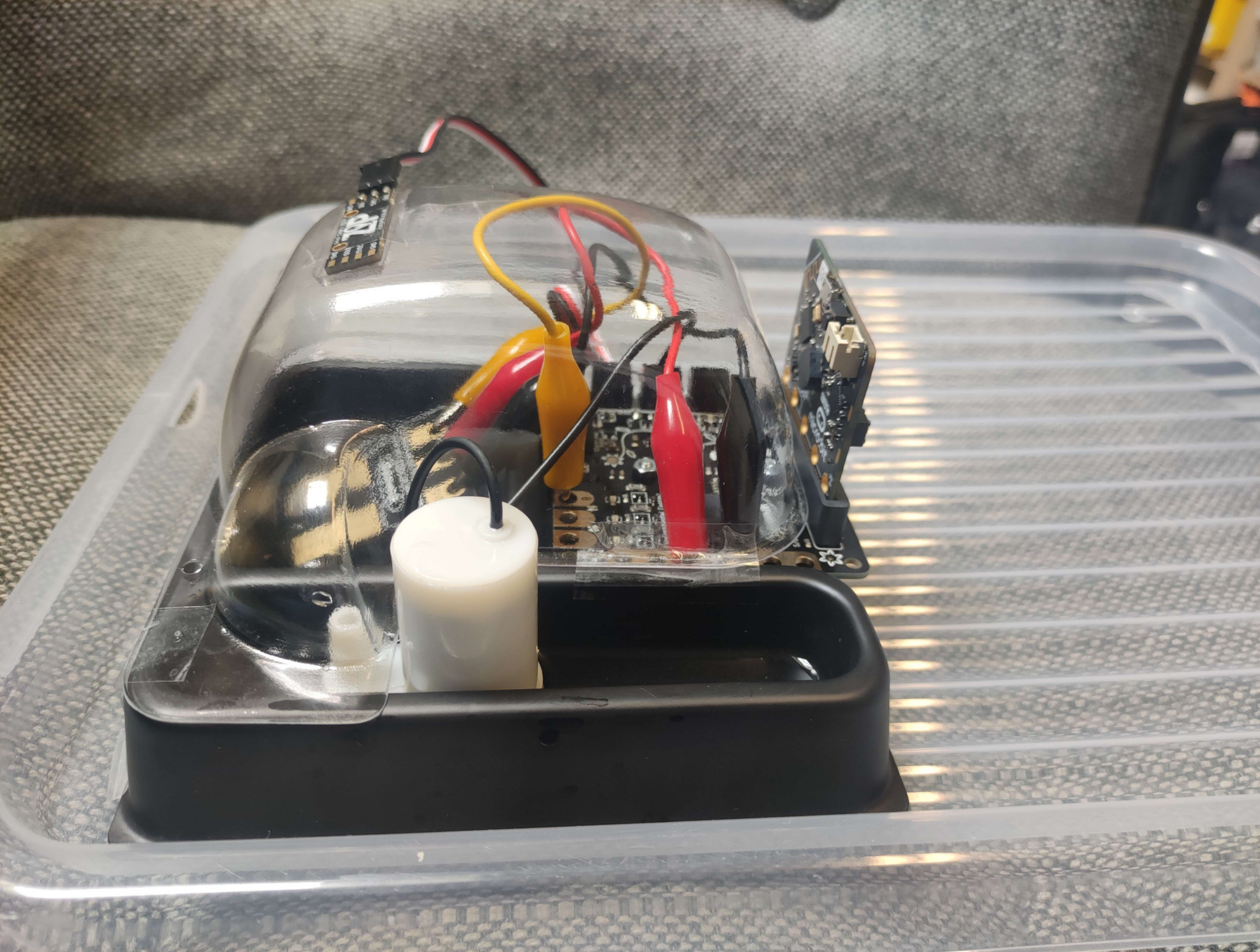
```

1 input.onButtonPressed(Button.A, function () {
2     moistureValue = pins.analogReadPin(AnalogPin.P0)
3     percentage = Math.round(moistureValue / 1023 * 100)
4     console.log("%: " + percentage);
5     radio.sendNumber(percentage)
6     zipLEDs.show()
7     if (percentage <= 50) {
8         zipLEDs.setBrightness(12)
9         zipLEDs.setColor(kitronik_smart_greenhouse.colors(ZipLedColors.Green))
10        kitronik_smart_greenhouse.controlHighPowerPin(kitronik_smart_greenhouse.HighPowerPins.pin13, kitronik_smart_greenhouse.onOff(true), 80)
11    } else {
12        zipLEDs.setColor(kitronik_smart_greenhouse.colors(ZipLedColors.Red))
13        kitronik_smart_greenhouse.controlHighPowerPin(kitronik_smart_greenhouse.HighPowerPins.pin13, kitronik_smart_greenhouse.onOff(false))
14    }
15 })
16 input.onButtonPressed(Button.AB, function () {
17     kitronik_smart_greenhouse.controlHighPowerPin(kitronik_smart_greenhouse.HighPowerPins.pin13, kitronik_smart_greenhouse.onOff(false), 80)
18 })
19 input.onLogoEvent(TouchButtonEvent.Touched, function () {
20     temperature = kitronik_smart_greenhouse.temperature(TemperatureUnitList.C)
21     console.log("Temperature: " + temperature + "°C");
22     basic.showNumber(temperature)
23 })
24 let moistureValue = 0
25 let zipLEDs: kitronik_smart_greenhouse.greenhouseZIPLEDs = null
26 let temperature = 0
27 let percentage = 0
28 zipLEDs = kitronik_smart_greenhouse.createGreenhouseZIPDisplay(8)
29 let zipStick = zipLEDs.zipStickRange()
30 radio.setGroup(3)
31 let moistureThreshold = 500

```

Code JS

[télécharger l'extension Greenhouse](#)



- * il y a beaucoup de façons pour le code Prong
- *si vous téléchargez Radio, vous devez supprimer Bluetooth
- * ça ne marchera pas si les trois piles ne sont pas à l'intérieur du Kitronik
- *Les LED sont au nombre de 8 (5 sur ZipLed et 3 sur la carte Micro:Bit)