

USB CONFIGURATOR MANUAL v1.0

USB Configurator is a device to configure the HC-DIG devices. It includes an application for Windows that is show following to let our customer know how to use it.

- 1. Connect the USB cable to your PC.** Wait up to Windows will install the drivers for the FTDI chip into the USB Configurator.
- 2. Find the number of the COM port** that Windows have opened after connecting the USB Configurator device to the PC.
- 3. Open the HC-DIG USB Configuration application.**



- 4. You can also select your language**



- 5. Press the connector logo** into the red oval show in the last picture.

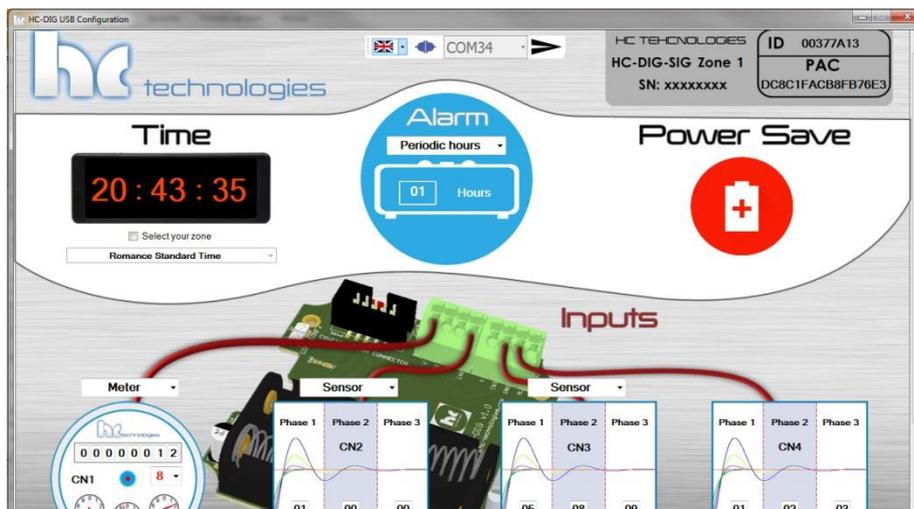
6. After press it, a new windows will appear saying you: Press the USB-Configurator button until this windows is closed (5 seconds).



7. Press the black button in the USB configuration device during 5 seconds (aprox) until this window is closed.

8. You are now into the configuration window:

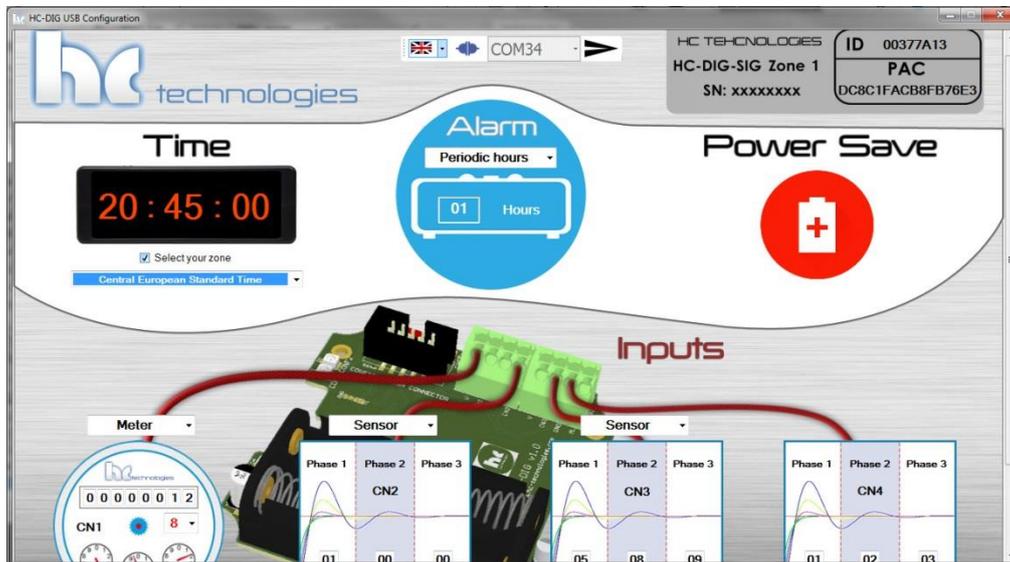
* The first thing that the HC-DIG Application makes is to read the current configuring of the device. So, the data shown after open the main windows is the current device configuration.



* You can find the ID and PAC (first PAC number. It changes after the first Sigfox backend activation)

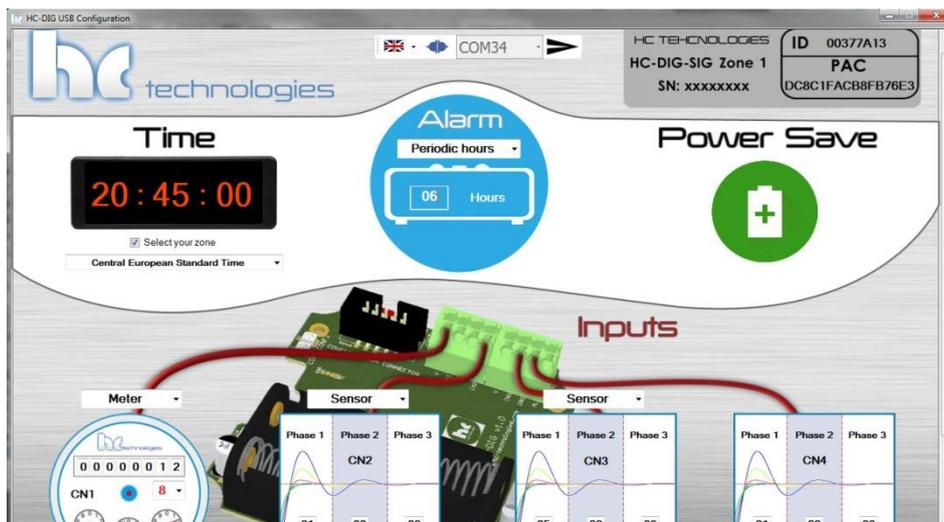
In this window you can configure the following:

1. Time. The time in the clock is got from your PC. If you want to configure a device that will work in a different time zone, you can select it in the list:



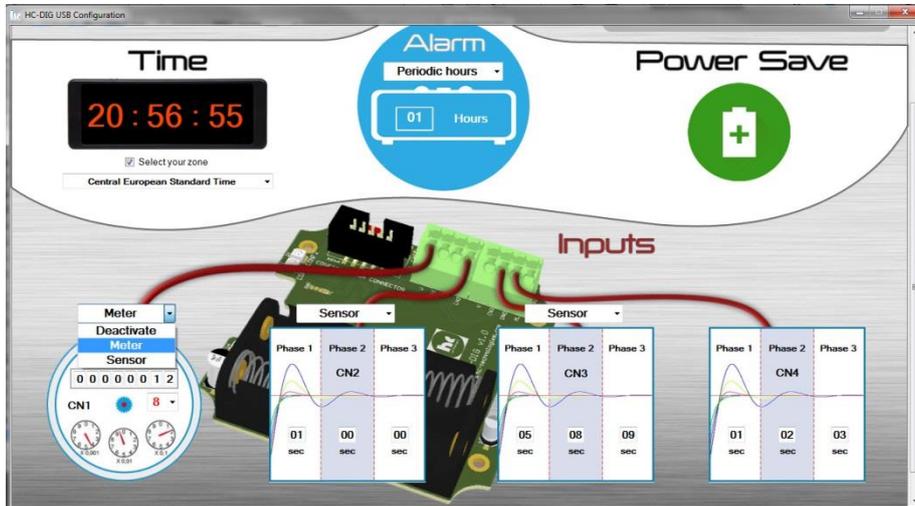
2. The alarm to send packets (packets period) can be configured in the Alarm place. You can select Daily packets (time when the device should send the packet should be selected), periodic hours (data every X hours) (hour periods should be selected) or Periodic minutes (data every X minutes) (minutes periods should be selected).

3. Power Save Mode. This mode is to configure the device to do not send packets if during the last period it has not read any pulse. In this mode, the device will send a packet at minimum once per day. So, it will just work in Periodic hours or Periodic minutes mode. Click in the red/green circle to activate / deactivate it.



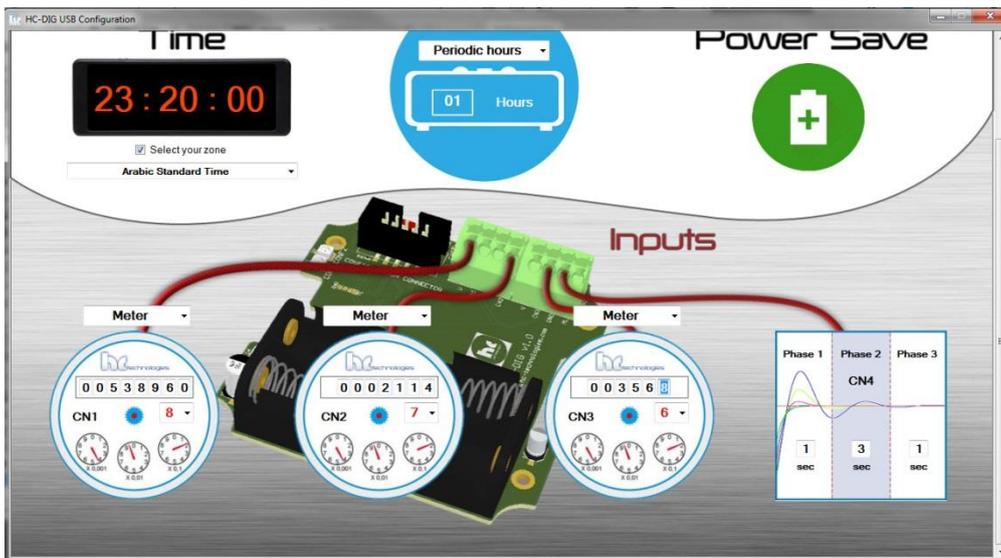
4. Inputs. HC-DIG devices have 4 inputs. The first three inputs can be configured as Meter inputs (pulse reader) or Alarm inputs. The fourth input is always an Alarm input.

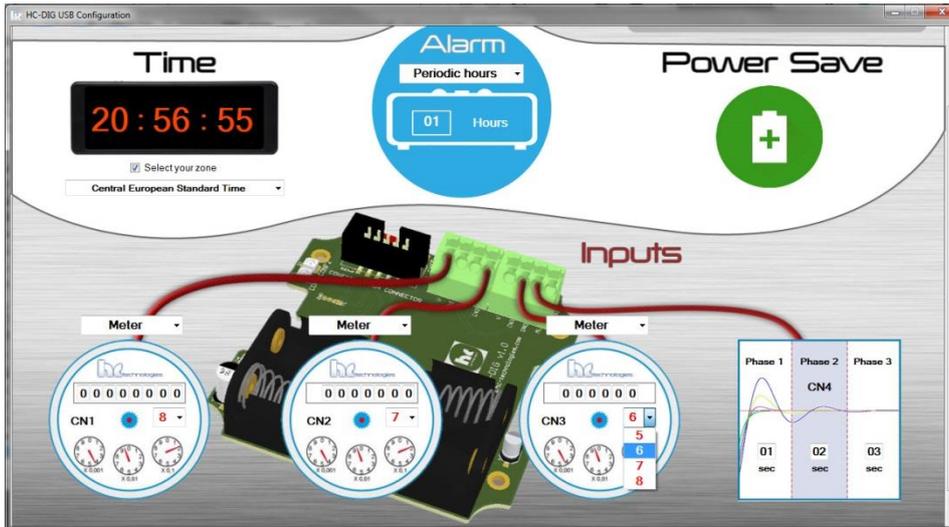
Depending on the input configuration, two different configurations can be made:



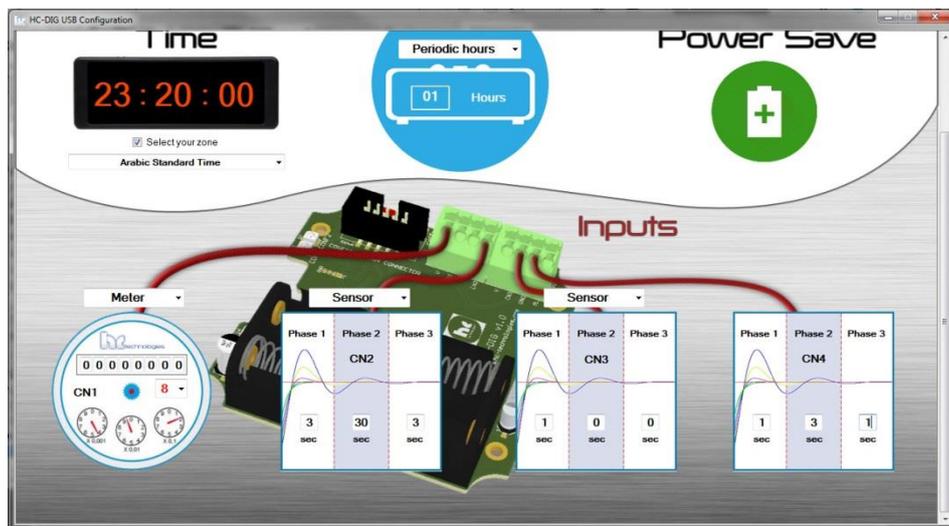
a. Deactivate: The input will not read.

b. Meter: Input to read pulses. It will send the total numbers of pulses read. If Meter is selected, the initial numbers can be placed (initial pulses). The number of digits (if a meter has numbers as XXXX,YYY m3 but the sensor sends one pulse every 0,1 m3/kwh (100 liters/w), the total number of digits are XXXX,Y, 5 in total. If the sensor gives pulses every 0,001 m3/kwh (1 liter/w), the total number of digits are XXXX,YYY, 7 in total. Configure the digits the device will pass from 99999,99 to 00000,00 at the same time that the meter.

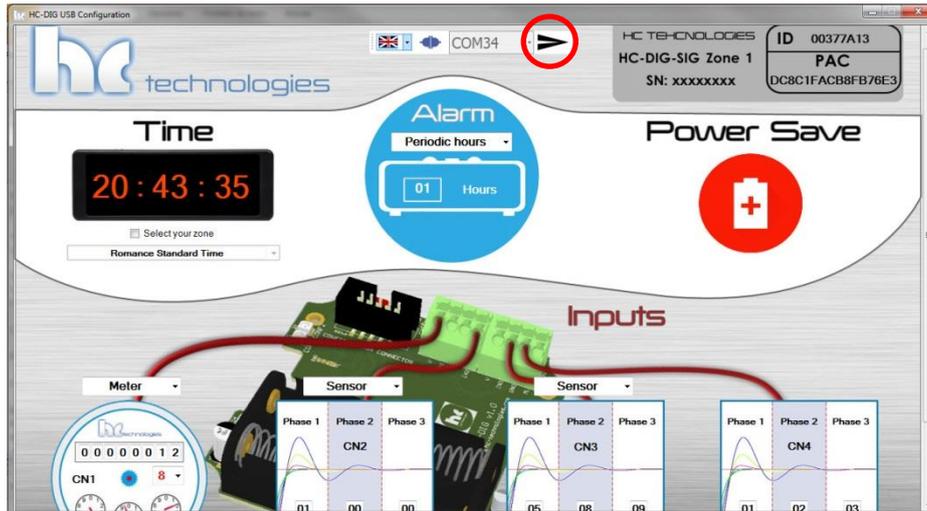




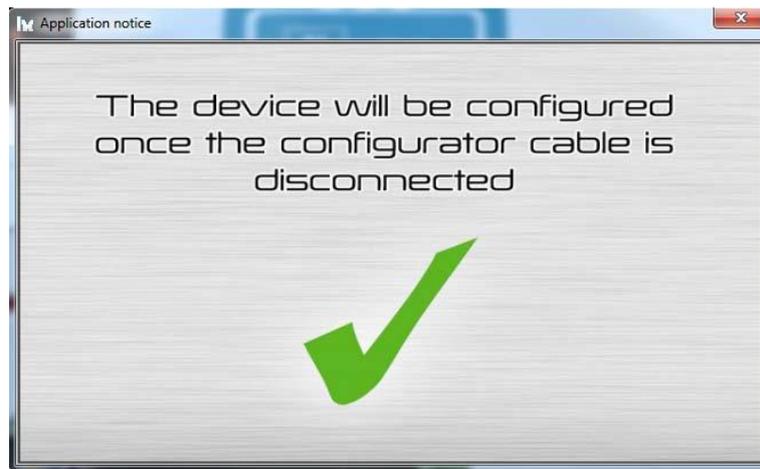
c. Sensor. In this mode, the device will send an alarm (at any time) if in that input it detects a voltage change (1 to 0 or 0 to 1). Three different filters (3 Phase) can be configured. If you do not need filters or you just want to use 1 or 2 filters, just place a 0 in the Phase you do not want to use. Time from 0 seconds to 60 seconds can be configured on them. During the phase time, the device will not read the input again. If three phase are configured with 3 seconds, 30 seconds and 3 seconds, the input will just be read in second 0, second 3, second 33 and second 36. If these three reading have the same voltage, the device will send the alarm. If some of them have any different voltage, (1 or 0), the device will not send the packet. It is used to do not read waves, small movements, etc...



5. Once the configuration has being change, to add this configuration to the device, the button into the red circle should be pressed:



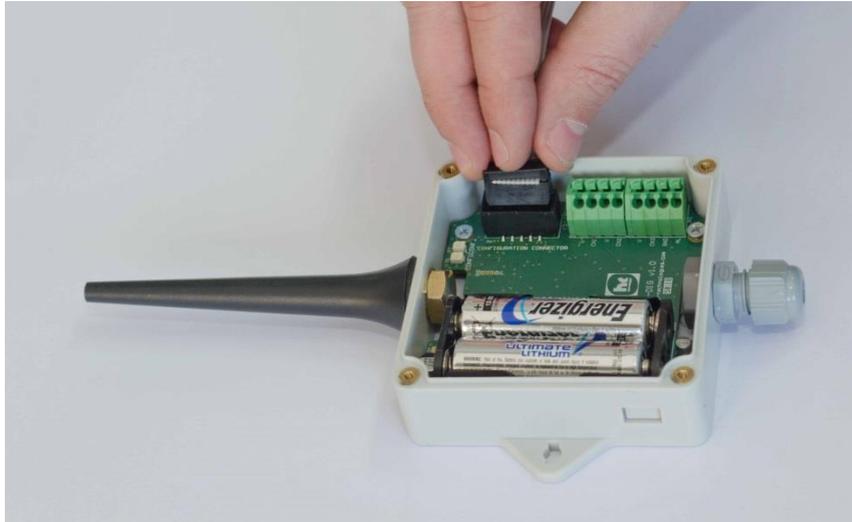
The following window is shown after pressing the configuration button saying that “The device will be configured once the configurator cable is disconnected”.



9. Disconnect the configurator

HC Technologies advises to disconnect the USB configurator first from the IDC10 connector (connected to the device) and later the USB connector (connected to the PC). The yellow LED should be off after disconnecting the IDC10 connector.

Step 1



Step 2



10. Configuring more than 1 device.

When more than 1 device want to be configure, please, go to step 4. Press the connection button to disconnect the serial connection and place it to start it again. Go on the next steps again.