

**PT100 ISOLATED
TEMPERATURE
HEAD
TRANSMITTER
THP102-I**



INSTALLATION GUIDE

IG_INHD_THP102-I_E02A

PT100 ISOLATED TEMPERATURE HEAD TRANSMITTER THP102-I

INSTALLATION GUIDE

step

01

**CONNECT AND CONFIGURE THP102-I PT100 ISOLATED TEMPERATURE HEAD
TRANSMITTER**

Pages 3 to 11

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01

CONNECT AND CONFIGURE THP102-I PT100 ISOLATED TEMPERATURE HEAD TRANSMITTER

DOWNLOAD AND INSTALL "TEKON CONFIGURATOR" FREE SOFTWARE FROM TEKON ELECTRONICS WEBSITE

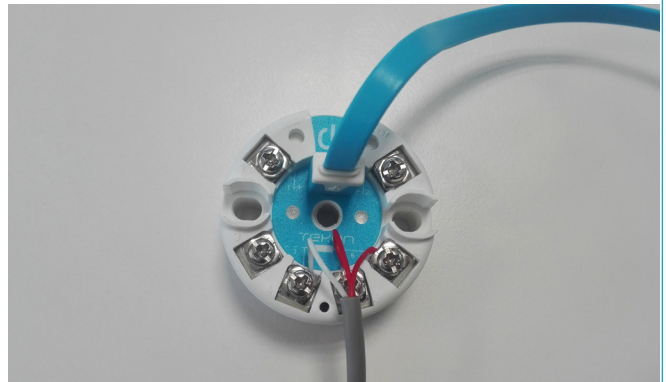
01

Connect the THP102-I transmitter to the Mini-USB cable.



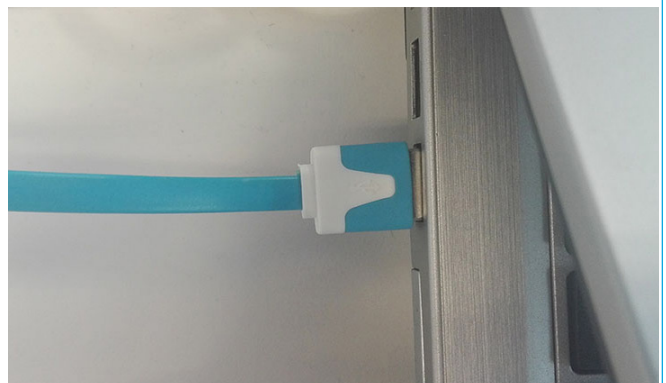
02

Connect the PT100 sensor to the THP102-I transmitter.



03

Connect the Mini-USB cable to the computer.



04

Open Tekon Configurator software.



step
01

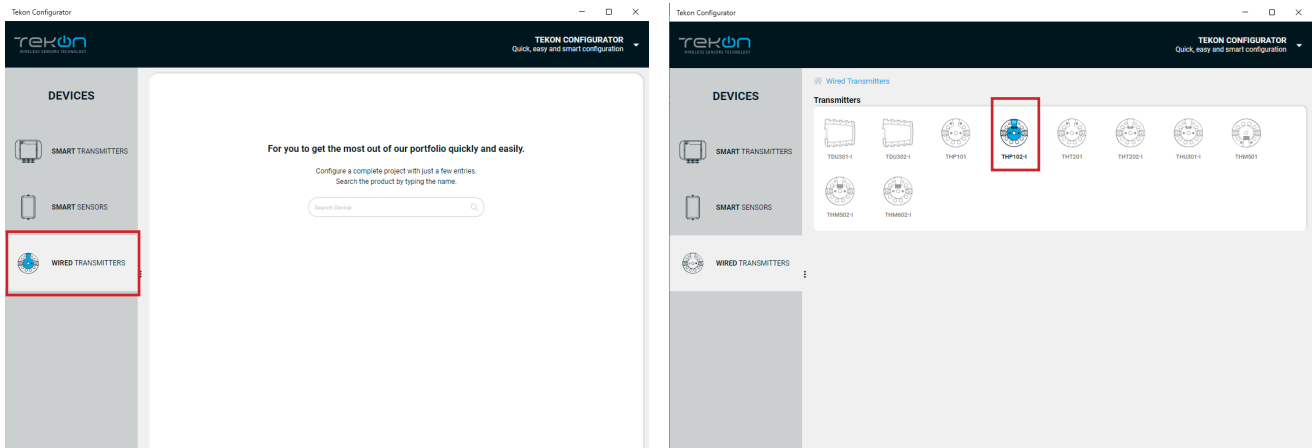
CONNECT AND CONFIGURE THP102-I PT100 ISOLATED TEMPERATURE HEAD TRANSMITTER

05

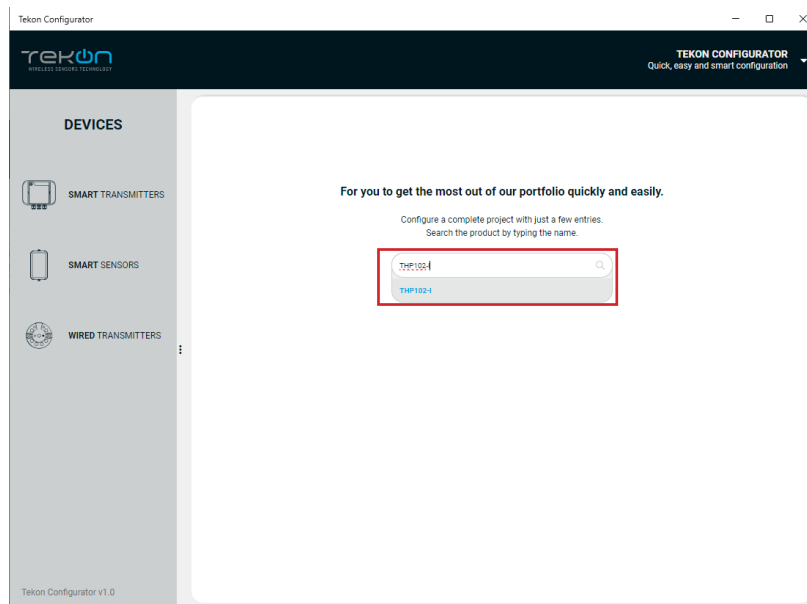
Open the THP102-I device page.

You can enter the device's page in the following ways:

1st option: Click on **"WIRED TRANSMITTERS"** in the left menu and then click on the device.



2nd option: Type the name of the device in the **"Search Device"** field on the home page and select.

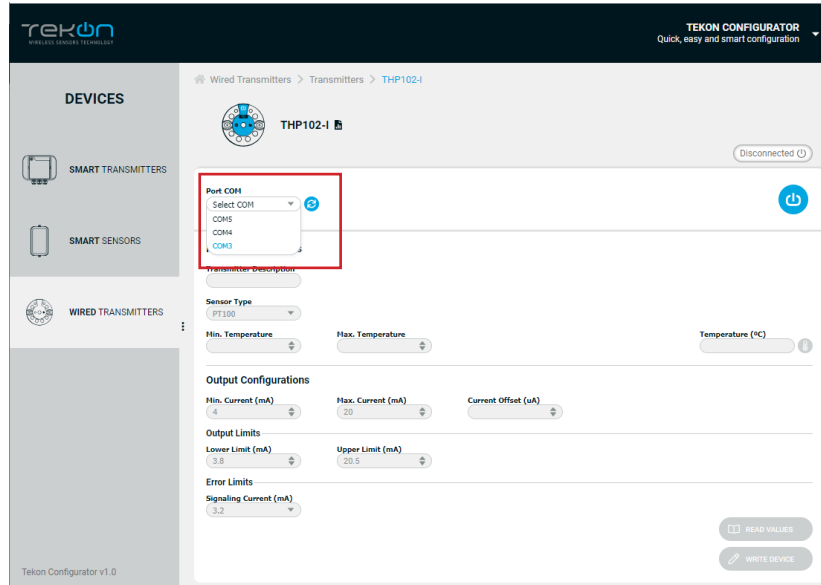


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06

Load the "Port COM" corresponding to the THP102-I.

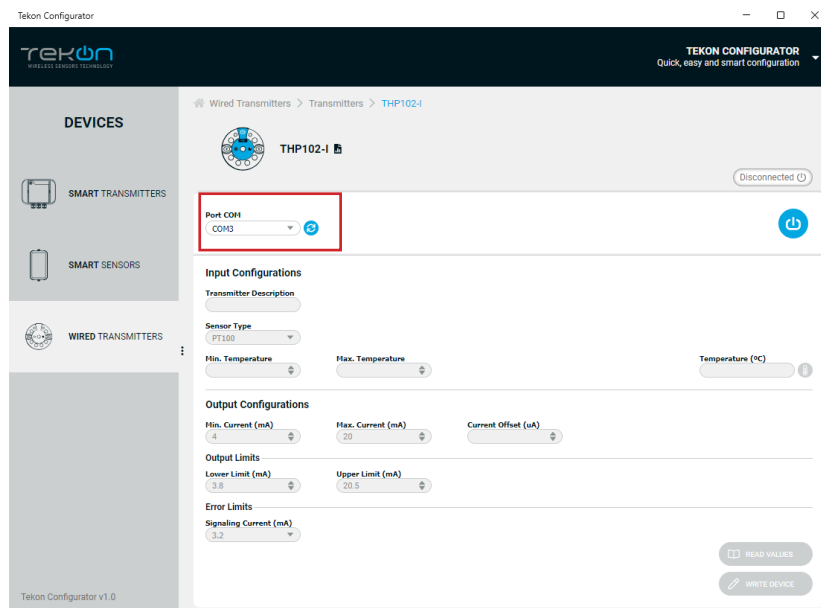


NOTE:

If the USB cable has already been connected before opening the device page, "Port COM" will appear in the list, otherwise you need to click on the "🔌" button.

07

Select corresponding *Port COM*².



² You can check device's serial port name in "Device Manager" on Microsoft® Windows® operating system.

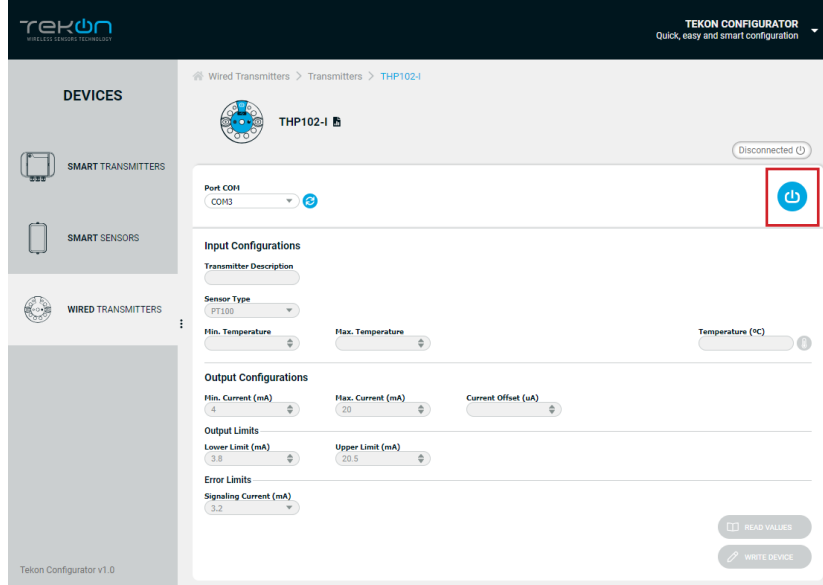
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CONNECT AND CONFIGURE THP102-I PT100 ISOLATED TEMPERATURE HEAD TRANSMITTER

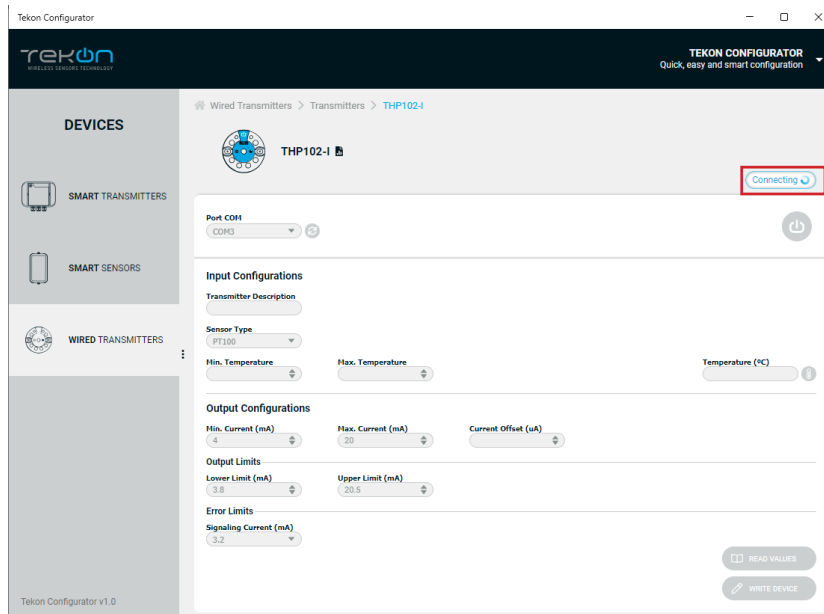
08

Click on *Connect* () button.




09

The software will connect to the device.



NOTE:

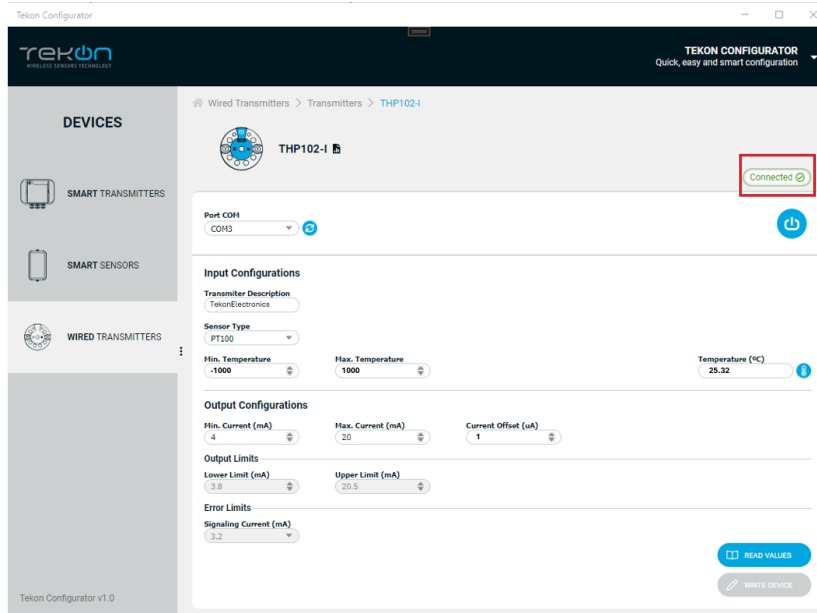
If the software is unable to connect to the device, the  status is displayed. If it hasn't connected, go back to the previous steps and check the port COM.

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CONNECT AND CONFIGURE THP102-I PT100 ISOLATED TEMPERATURE HEAD TRANSMITTER

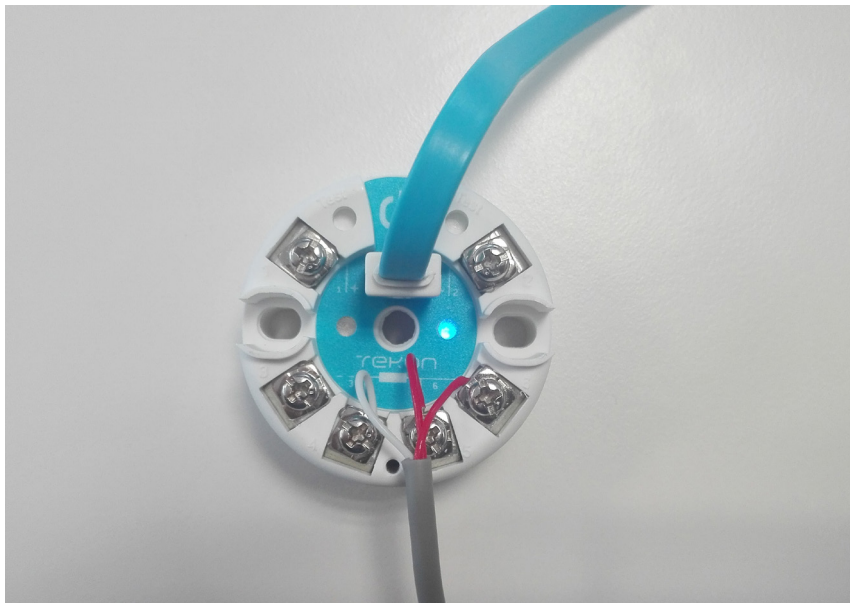
10

When the software connects to the device, the “*Connected*” message will be displayed.



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While the THP102-I transmitter it is in configuration mode, the blue led will flash continuously.

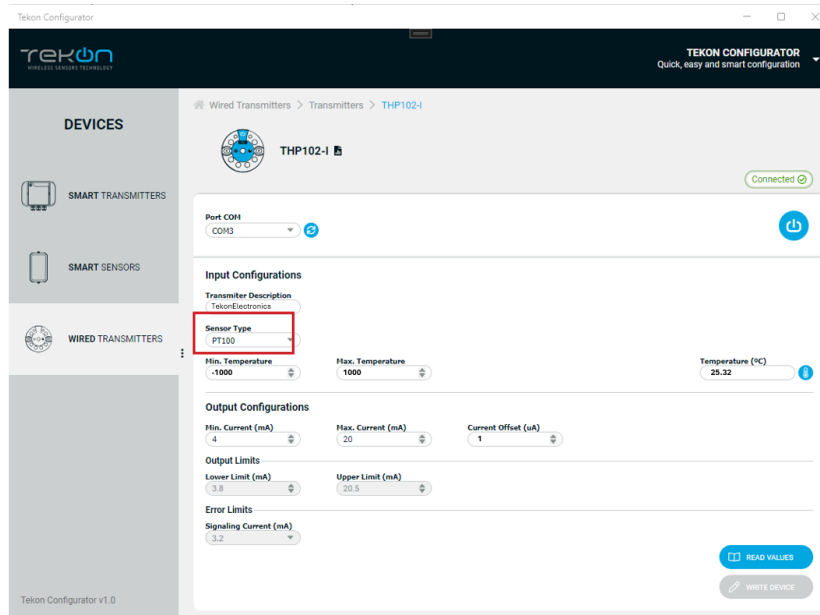


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CONNECT AND CONFIGURE THP102-I PT100 ISOLATED TEMPERATURE HEAD TRANSMITTER

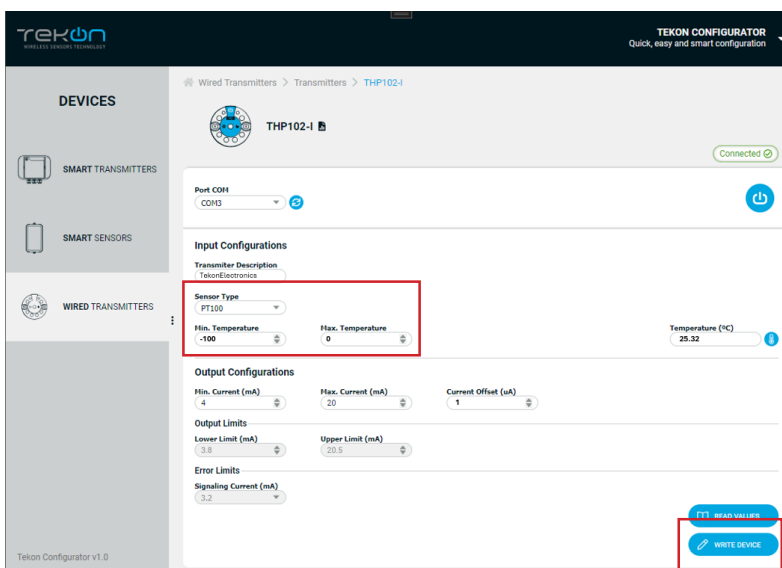
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In this model, **PT100** is the only sensor type accepted.



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To change the selected sensor settings, update the value of the desired parameter and select the “Write Device” option. In this example, we use the default **PT100** sensor type and change the “Temperature Min.” to -100 and “Temperature Max.” to 0.



While the settings are being written, the following icon will be displayed next to the “WRITE DEVICE” button [🔄]

If the changes to the device have been written, the following symbol will appear [✅]

If not, the following symbol will appear [❌], try again and check that the device is connected correctly.




NOTE:

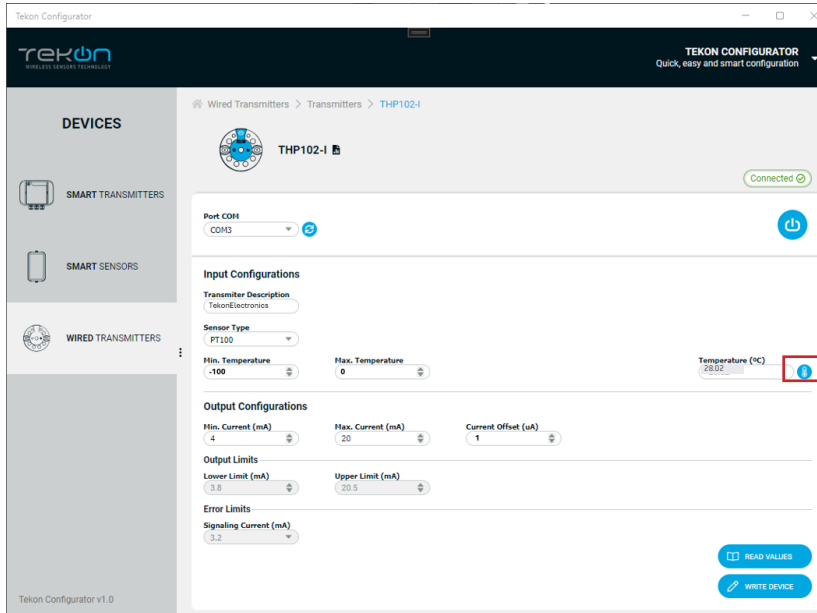
The “WRITE DEVICE” button will only be active when there is a change to one of the editable fields, if there is no change it will be disabled.



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Click on  to read the current temperature value.



Wait for the software to read the values from the device. Wait for the  status to change to .

If the device reading fails  appears. Make sure that all the steps have been carried out correctly.

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If the temperature reading is outside the set temperature range, the transmitter THP102-I red and blue led will blink simultaneously.



Note: please review your settings and check the datasheet status led information to analyse all the led behaviours.

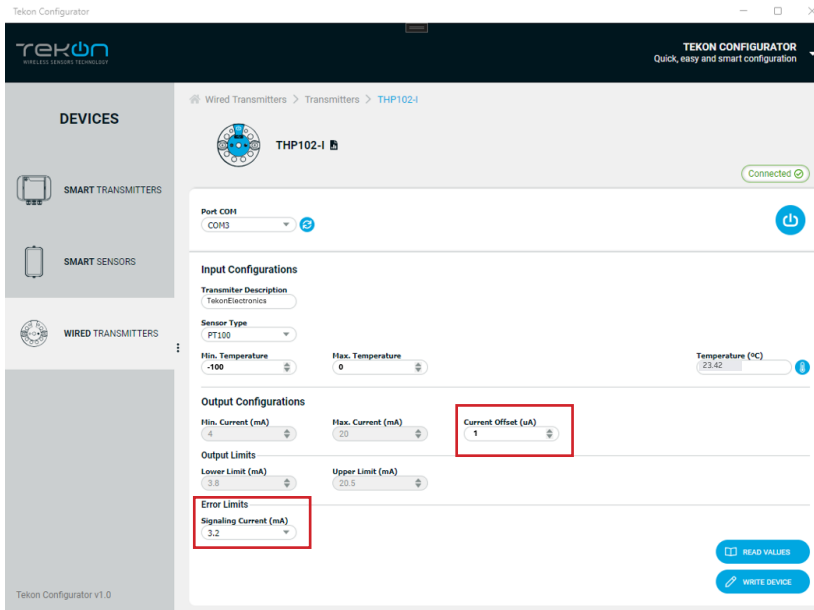
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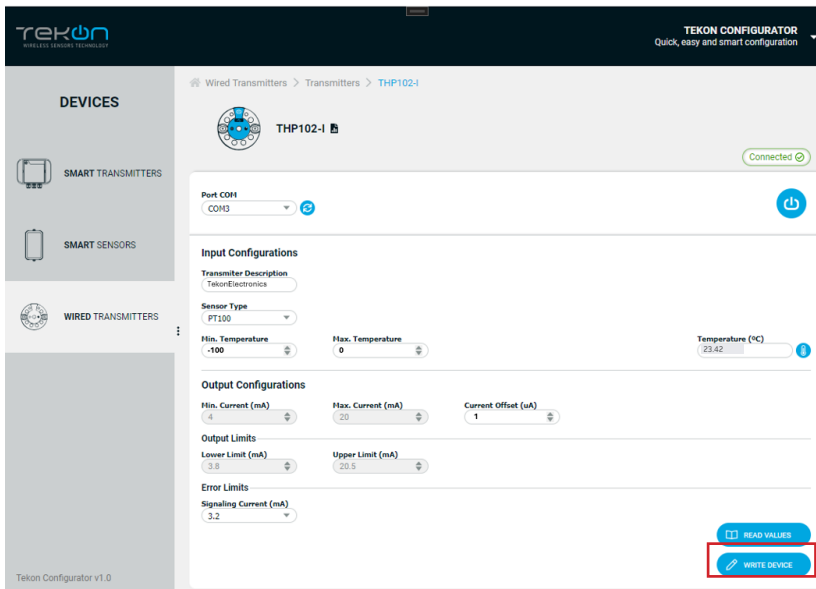
In Output Configurations you can set “**Current Offset (uA)**” and in Error Limits you can set “**Signaling Current (mA)**”:

- “**Current Offset (uA)**”: value add to the output current, to perform an offset.
- “**Signaling Current (mA)**”: current set to alert for sensor problems (open circuit, no sensor connected or sensor damaged).



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Edit the fields and click on “**Write Device**” to save the changes. To return to the previous software window, click on the “**Basic Options**” tab.



While the settings are being written, the following icon will be displayed next to the “**WRITE DEVICE**” button (🔄)

If the changes to the device have been written, the following symbol will appear (✅)

If not, the following symbol will appear (❌), try again and check that the device is connected correctly.



NOTE:

The “**WRITE DEVICE**” button will only be active when there is a change to one of the editable fields, if there is no change it will be disabled.

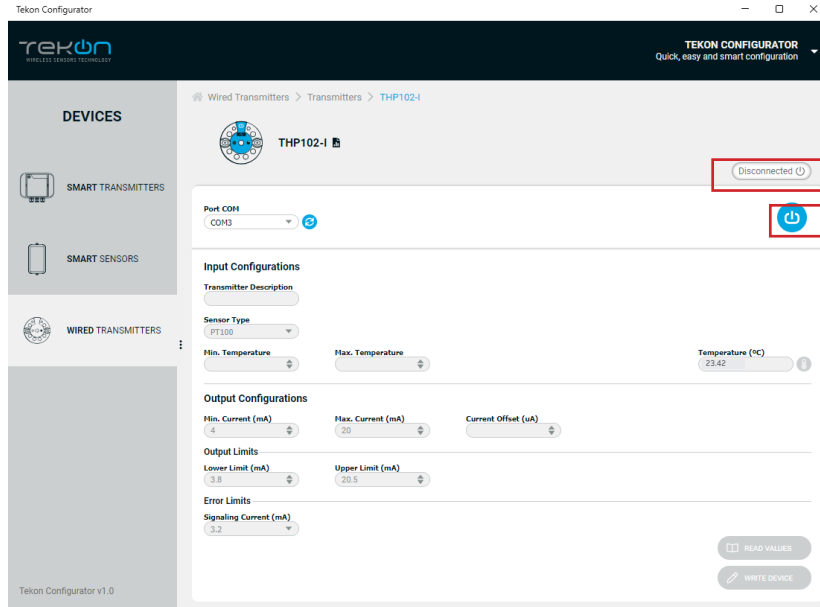
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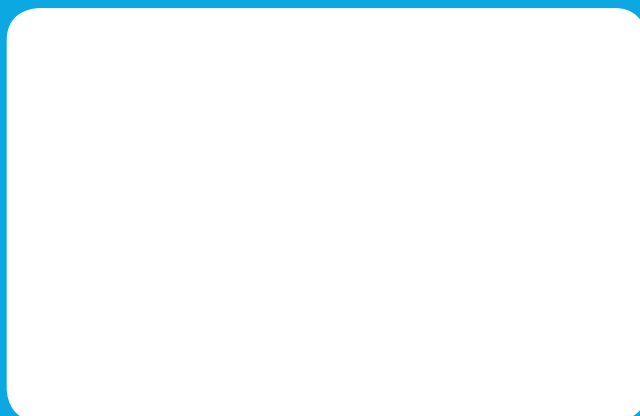
Click on the button () to exit *configuration mode* and return the device to normal operating mode.



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