PRA - Quick Start Guide

Programming Adapter

General Information

- The adapter is only to be used for maintenance and development purposes.
- The adapter needs to be used in combination with a configuration software which is delivered together with the adapter.

Start-Up Programming Adapter

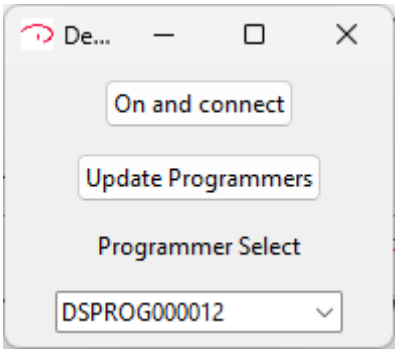
1. Connect the sensor to the adapter using the M8 connector
2. Connect the adapter with your PC using the USB Cable
3. Start the configuration program (locally or from the USB stick)

Configuration software

Software updates are available on request. Please contact our sales team for further information. Please do not hesitate to contact us if you are facing any problems or have any questions.

Start of the program

After starting the program, you will see the following screen:



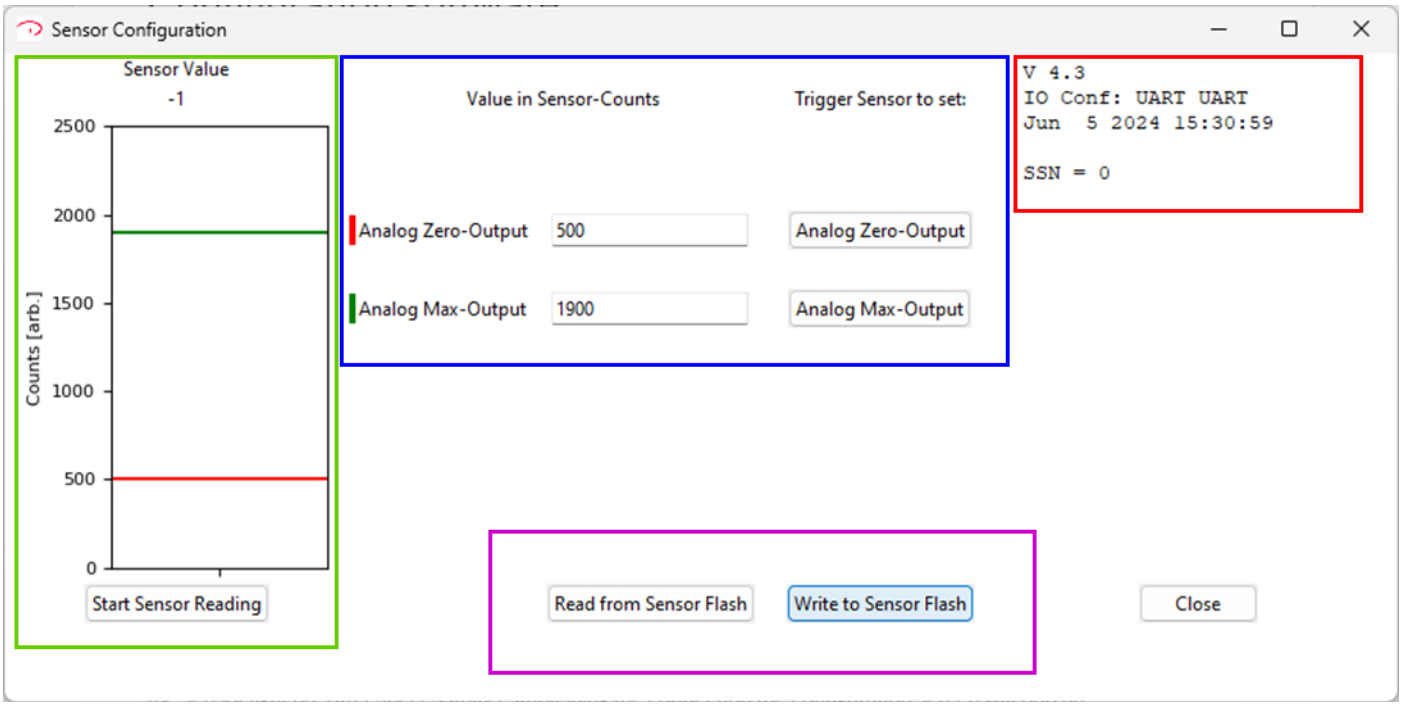
If the sensor was connected to the PC before starting the program, the programming adapter is already selected. Otherwise, connect the sensor, wait for 10 s for initialization by the operating system, press “Update Programmers” and select the proper adapter.

Use the button “On and connect” to power on the sensor and connect to the sensor. You will see the LED indicator on the sensor light up. After successfully establishing the connection the configuration screen will pop up.

Configuration screen

The configuration screen offers you the possibility to see the current sensor value and set up the different limits for the sensor.

On the screen the information is visible respectively the functions are available as follows:



Sensor Values (green box)

Use the button “Start Sensor Reading” to start cyclically reading the sensor value. The value is shown in the bar graph as well as a number above the graph. Use “Stop Sensor Reading” (same button, changes dynamically) to stop.
The upper limit of the bar graph scales with the Analog-Max-Output limit. Use this to scale the graph if necessary.
While the sensor reading is active, the sensor also updated the analog value so that you can evaluate changes on the limits for the analog values on the fly. Digital Outputs can not be observed as the pins are used for communication.

Limits (blue box)

Depending on the sensor configuration, the available limits are shown here. The limit value is also visible in the bar graph indicated by a horizontal line in the according color.
There are two ways changing the limits:

- Manual
- Trigger the sensor to readout the current value and set the limit

Manual limit change:

Type the desired limit value in the text box and press the “Return” key afterwards. The value is changed locally as well as on the sensor immediately. The sensor does not write the value already to its memory. This must be done afterwards (see “Sensor programming”).

Trigger sensor to change value:

Press the button for the limit which should be changed. This triggers the sensor to read the current value (internally on the sensor) and set the limit to the value measured. Afterwards, the value is read by the configuration software and shown in the text box. The sensor does not write the value already to its memory. This must be done afterwards (see “Sensor programming”).

Sensor information (red box)

In this section the Firmware version as well as the build date are shown. Additionally, you can see with which output configuration the sensor is configured and the serial number of the sensor. Please give this information to our sales team if technical support is necessary.

Sensor programming (purple box)

Read from Sensor flash:

The active settings of the limits are read from the sensor and shown in the text boxes.

Write to Sensor flash:

The sensor is triggered to store the active settings into its non-volatile memory and validates the written information. A message gives feedback about the success.