CANopen Configurator CAN2USB

System requirements: Windows 7, Windows 8, Windows 10, USB 2.0 or higher

Content

1. Installation and Setup

1.1. Connection of hardware

Connect the CAN2USB hardware to the computer's
USB port.
Use the T-connector to connect the pressure transmitter
to the CAN2USB device.
Connect the supplied terminator to close the bus on the
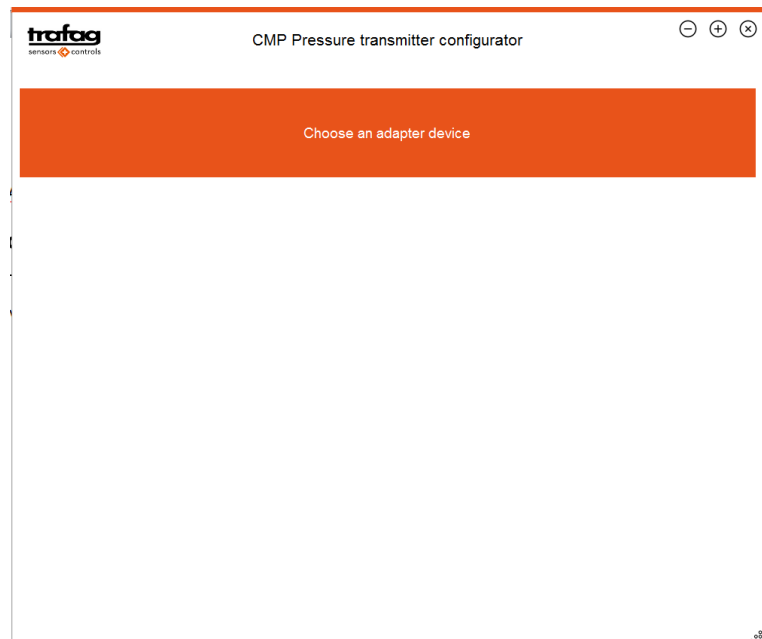open side of the T-connector.

1.2. CMP Configurator Software

Double-click the file *"Trafag CMP Configurator Setup.exe"* and follow the instructions of the installation wizard.

Verify in advance that you have the latest software version by checking on www.trafag.com.

The respective USB driver must be
installed if the program window is empty
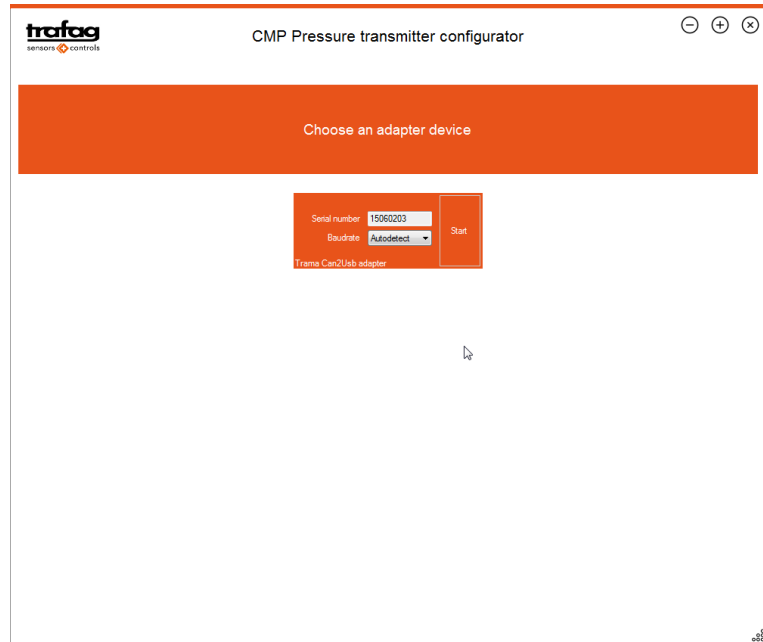although the CAN2USB hardware is
properly connected.
For the USB driver installation see 1.3
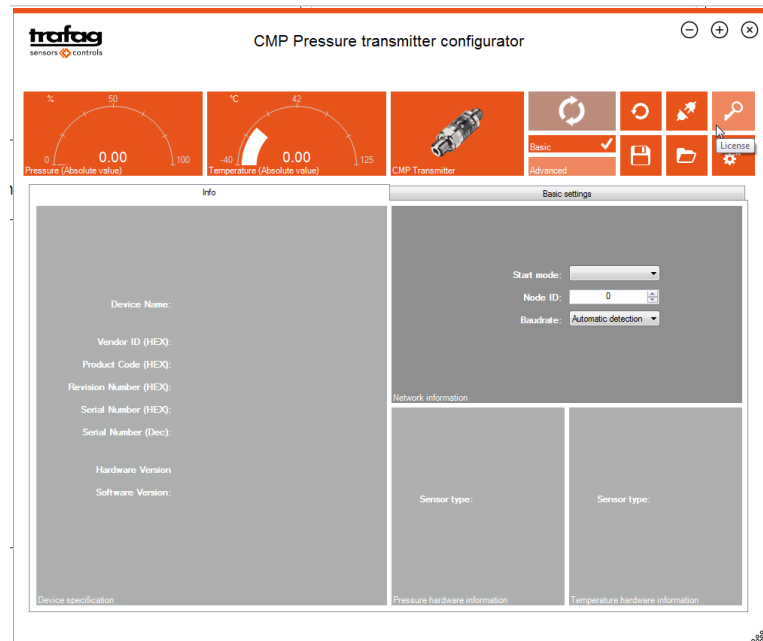
1.3. Driver installation

Open the Windows device manager from the Windows Control Panel. Look for the "Trama USBCAN Device" and update manually the driver "WDF driver for Trama CW-IUSB device" by using the right mouse button and following the instruction.

After successful installation of the driver and connecting a working CMP CANopen pressure transmitter via the CAN2USB interface, the program shows the serial no of the connected device.
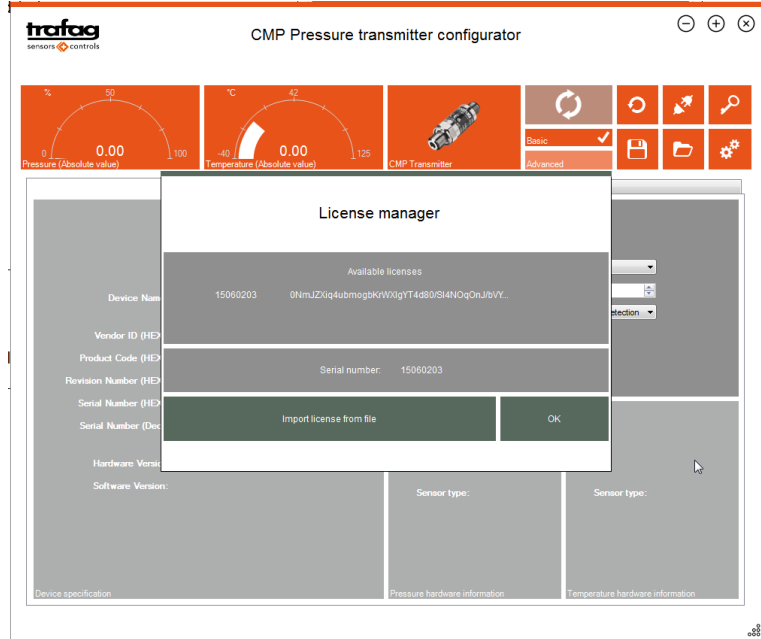
1.4. Importing the license file (required for the Advanced Mode)
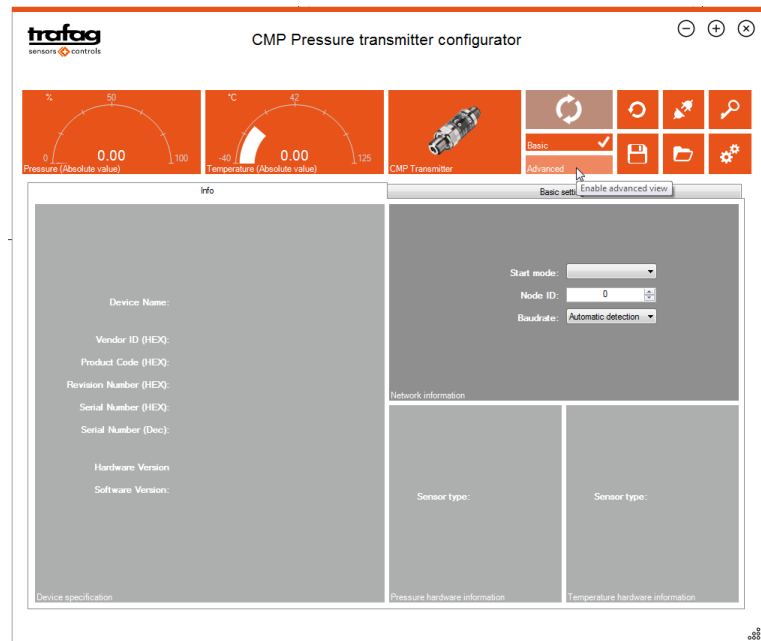
Click on the "License" icon

Click on "Import license from file", select the appropriate license key file.

The license key number must correspond with the serial number of the CAN2USB device.
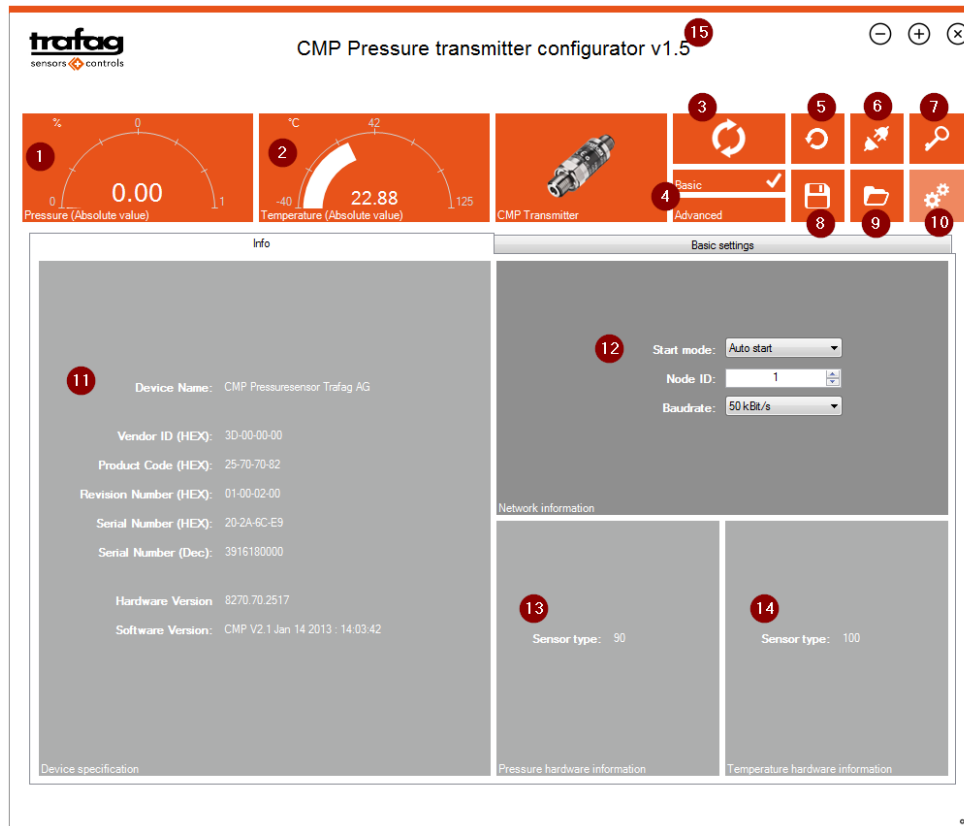

1.5. Enable Advanced Mode
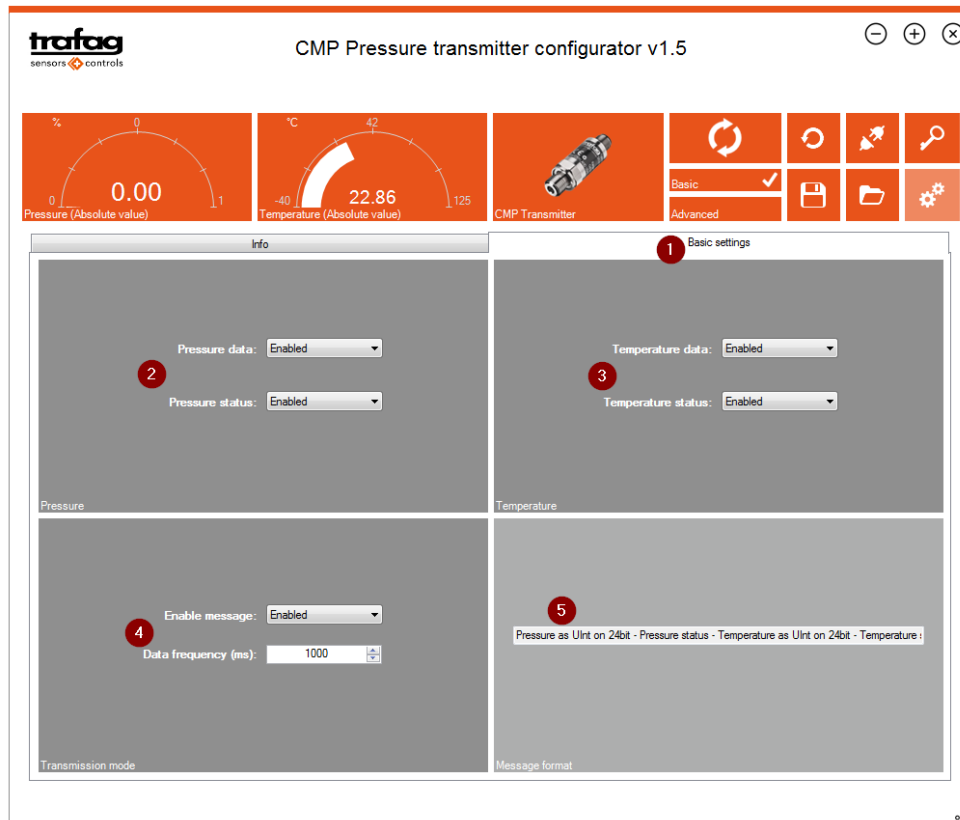
Click on the "Advanced" button.

2. Basic Mode

2.1. Screen overview and Info tab

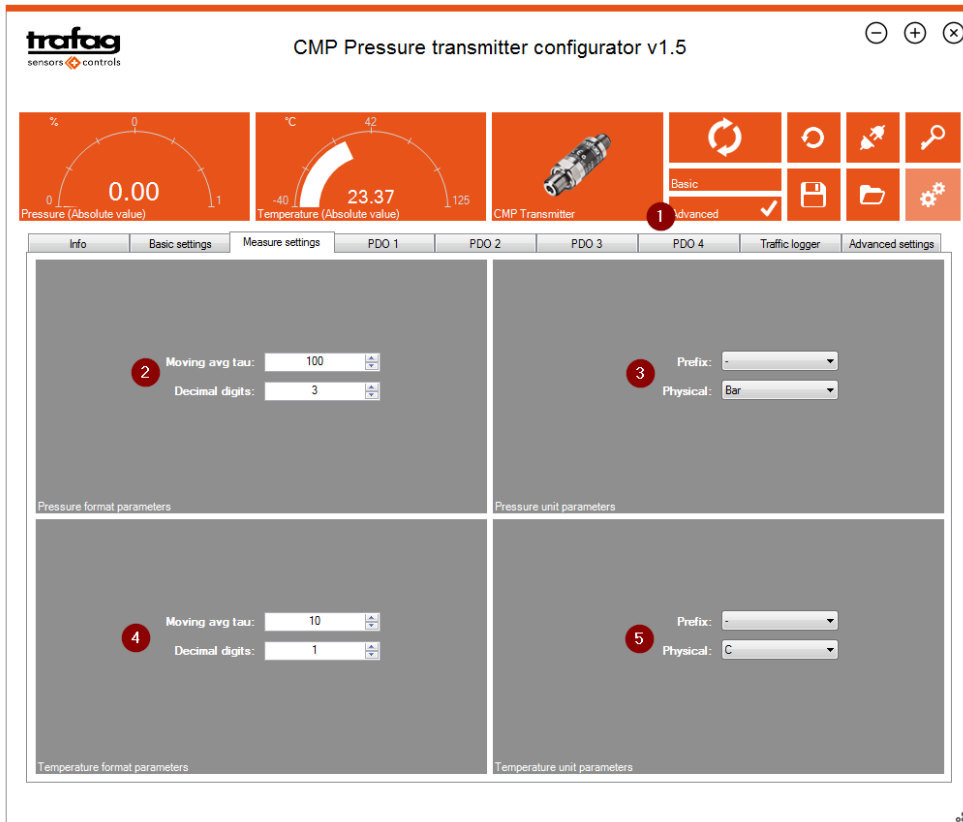| No	Item	Comment
1	Pressure display	Indicates pressure actual measurement. The unit and its prefix are defined in the measurement parameter settings (see 3.1). This indication is independent of any PDO setting, because the value is generated through the respective SDO
2	Temperature display	
3	Store data on CMP device permanently	Any changes made in the CMP configurator must be permanently store in the device to be active.
4	Basic / Advanced	Toggles between Basic Mode and Advanced Mode.
5	Reset to factory settings	
6	Disconnect	Disconnects the CANopen node (the CAN2USB tool remains connected).
7	License	Import / Display license key menu
8	Export DCF File	Exports device settings in DCF file
9	Import DCF File	Imports device settings from a DCF file
10	Help	Opens the help menu with links to the manuals for both the configurator software and the CMP pressure transmitter. Selects the EDS file in use.
11	Device Information	
12	Network information	Start mode, Node ID and Baudrate may be changed here. To activate the changes, the information must be stored on the device (3), and the device must be restarted again (via deconnect/reconnect). The node ID must be changed by using the toggle up and down buttons. Writing the desired node ID directly in the field would lead to errors.
13	Pressure Sensor Type	CANopen code for pressure sensor = 30
14	Temperature Sensor Type	CANopen code for temperature sensor = 100
15	Software Version	The latest software version can be downloaded at www.trafag.com

2.2. Basic settings

No	Item	Comment
1	Basic settings tab	
2	Settings for pressure data	Enable or disable data and / or status. The status cannot be enabled while the corresponding data is disabled.
3	Settings for temperature data	Enable or disable data and / or status. The status cannot be enabled while the corresponding data is disabled.
4	Transmission mode	Enable the message transmission and select the data frequency by toggling up and down the value.
5	Message format	Displays the selected message format.

The configurator software configures the selected parameters to match one of the predefined CMP 8270 PDO mapping modes (for details see instruction CMP 8270 www.trafag.com/H73615). In case the combination does not match with one of the parameter and an error message appears, try a different sequence of entering the parameters.

3. Advanced Mode

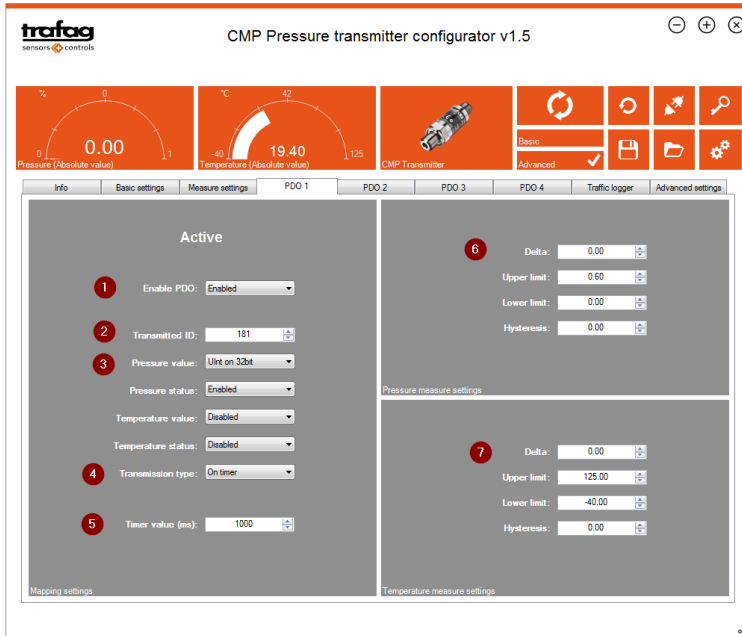## 3.1. Measurement parameters

Select the measure format and unit parameters. The settings affect all active PDOs, but have no effect on the indicators in the upper left corner of the CANopen configurator software user interface.

No	Item	Comment
1	Advanced Measure Settings	Measure settings are only available in the Advanced Mode
2	Pressure format parameters	Moving average for filtering and decimal digits of measured values. Both values apply for all PDOs
3	Pressure unit parameters	Prefixes: Mega, Kilo, Hecto, Deca, deci, centi, milli, micro, - Units: bar, Pa, at, mWg, mHg, atm, psi
4	Temperature format parameters	Moving average for filtering and decimal digits of measured values. Both values apply for all PDOs
5	Temperature unit parameters	Temperature units: °C, °F, Kelvin

3.2. PDO setting

Up to four different PDOs can be set. The PDO setting must match with the PDO mapping table according the CMP 8270 software operating instructions.
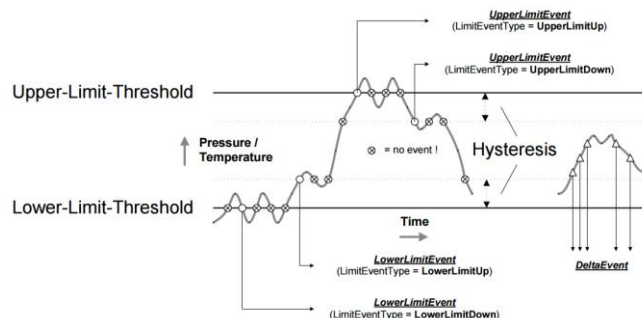

Settings in transmission mode "On event"

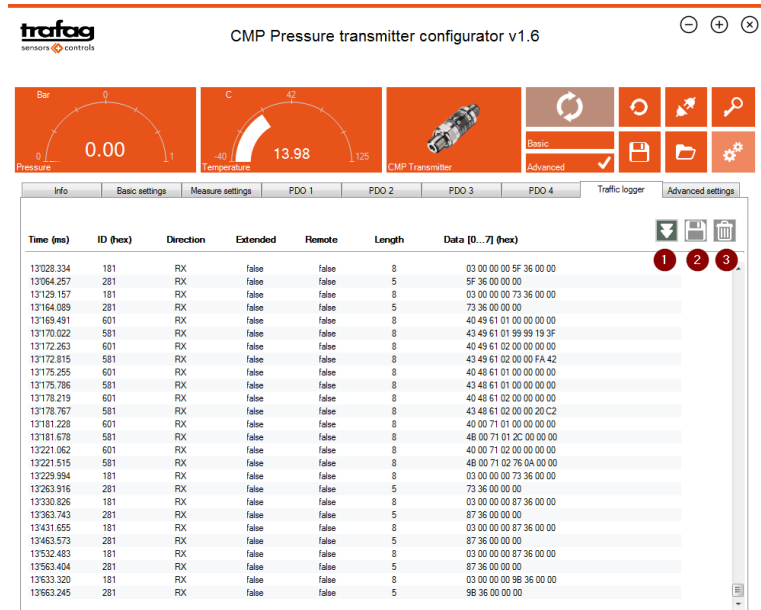| No	Item	Comment
1	Enable PDO	Up to 4 PDOs can be enabled
2	Transmitted ID	PDO1: 180h + Node ID in HEX PDO2: 280h + Node ID in HEX PDO3: 380h + Node ID in HEX PDO4: 480h + Node ID in HEX
3	Pressure and temperature value	Select a valid combination according the PDO mapping table
4	Transmission type	See overview below
5	Timer value	Only valid if the transmission is set to a timer driven type.
6	Pressure measure settings	Defines the thresholds for the event driven transmission types.
7	Temperature measure settings	Defines the thresholds for the event driven transmission types.

Transmission types
1. On event: Transmission triggered by upper and lower threshold of pressure or temperature or Delta pressure / temperature (see graph)
2. On timer: Transmission triggered by transmitter internal timer
3. On sync: Transmission triggered by SYNC message of bus master
4. On sync and event
5. On RTR sync
6. On RTR timer

Software Instruction for
CANopen configurator CAN2USB
H73617_1

Page 9

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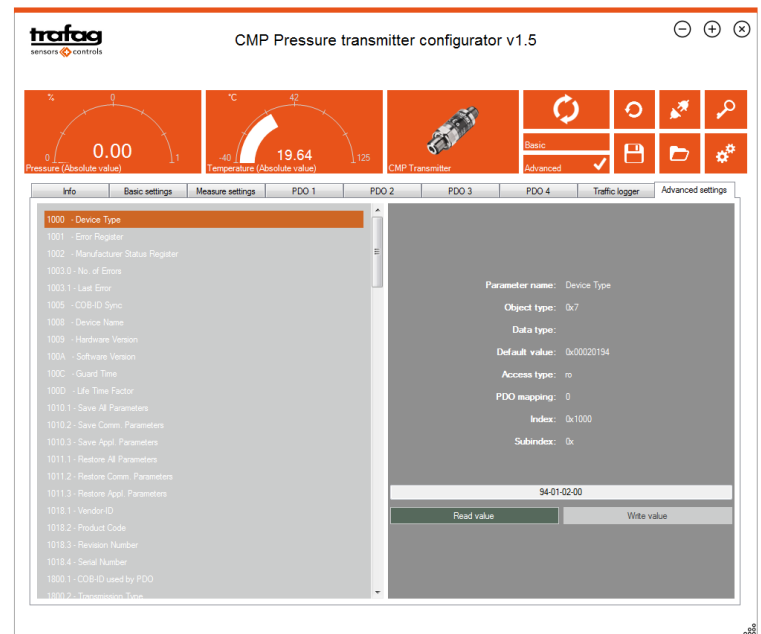sensors + controls

3.3. Data logger

1. Start / Stop of logging function
2. Save log file as csv
3. Empty log

3.4. Advanced Settings

The complete object dictionary with all settings is available.

Only for experienced users.

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