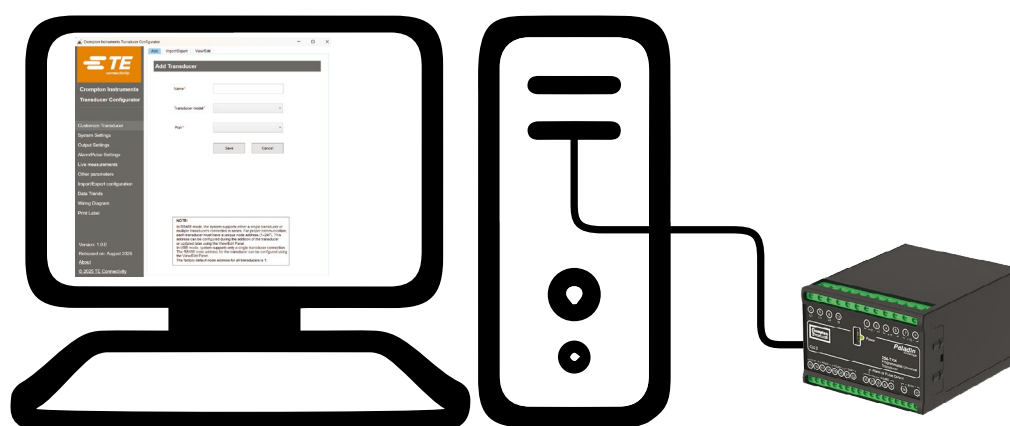


Crompton Instruments Transducer Configurator

User Manual

PII-4521-10/25



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Please dispose of all waste according to environmental regulations.



The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, TE Connectivity has no control over the field conditions which influence product installation.

It is the user's responsibility to determine the suitability of the installation method in the user's field conditions.

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1. Getting started

This manual describes how to use the Crompton Instruments Transducer Configurator tool to configure system type, energy & demand, and communication settings of the digital Transducers from a computer. The settings can be saved and imported easily when configuring multiple Transducers. The Transducer Configurator also features a data logger and data trends allowing users to monitor, record, and compare various parameters of Transducers over a specified time period.

1.1 Before you begin

Before using the Transducer Configurator, make sure that the digital Transducer is wired correctly, and powered ON. Make sure that you have the latest version of Transducer Configurator software installed on your computer. You can download the latest version at <https://www.te.com/en/private/energy/crompton-software-downloads-254-TXX-programmable-transducer.html>.

1.2 Identify the Transducer model

To view the Transducer identification information, use the label on the side of the Transducer. For more information, see the *Setup and Operation Guide* supplied with the product.

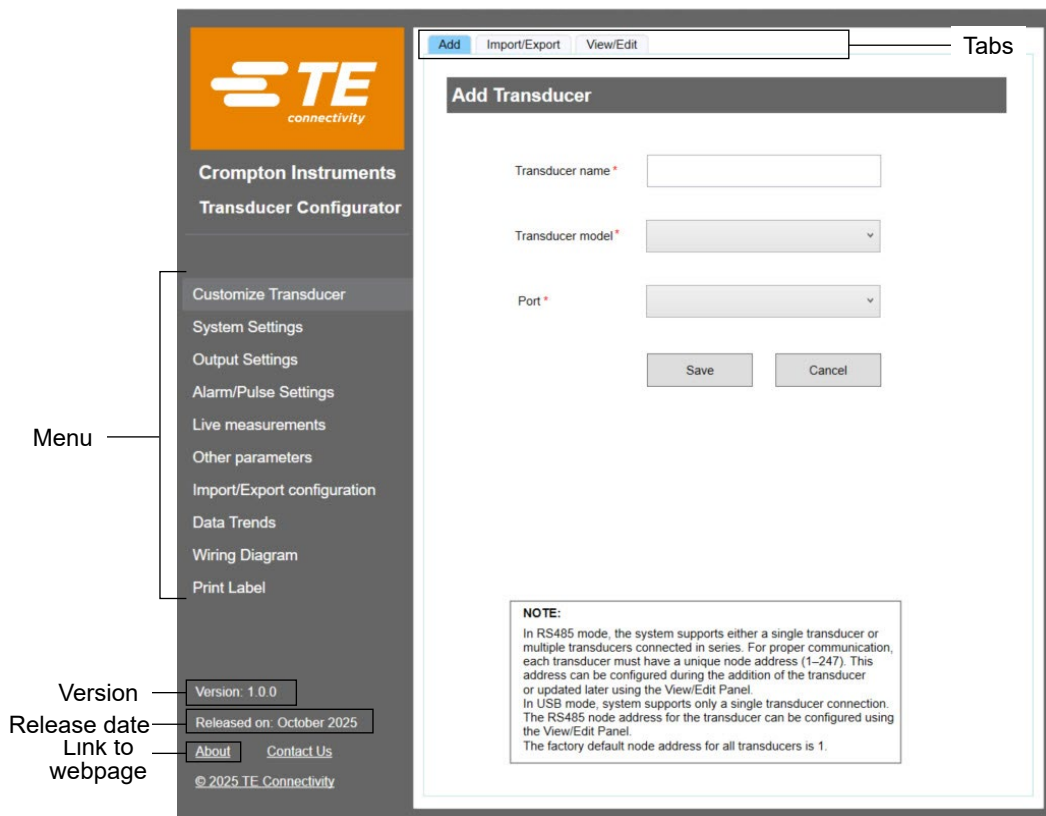
2. Transducer Configurator Overview

The Transducer Configurator has various menu options to setup the Transducer, import/export configurations, view live measurements, log and explore various parameters of the Transducer. The following sections in this manual describe each menu option and how they are used to programme and utilise the Transducer.

On launch of the application, select RS485 or USB from the dropdown menu. RS485 indicates use of the software will be through standard RS485 Modbus protocol. USB mode is for users who are setting up the Transducer through a USB-C connection.



After selecting the connection type, you will be presented with the screen below:



NOTE

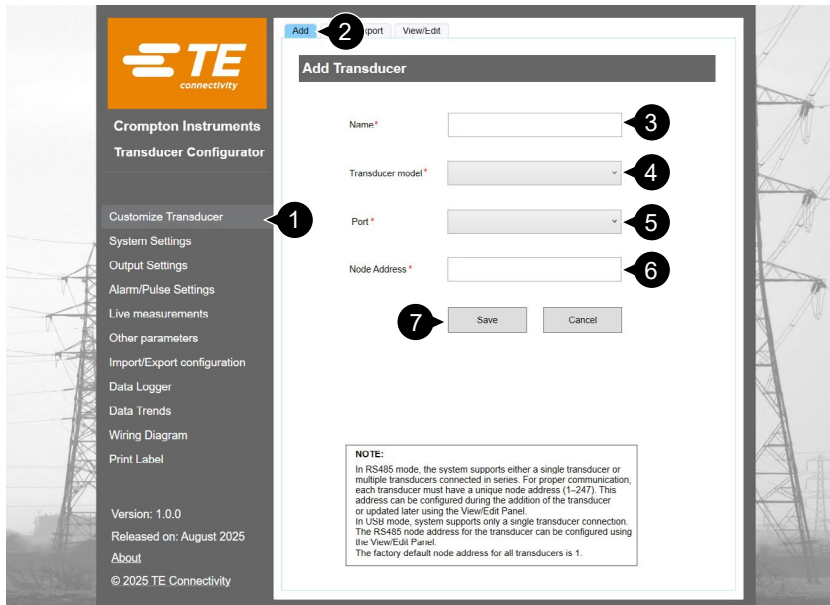
Rest the mouse pointer over any setting to see the help information.

3. Customizing the Transducer

The customize transducer menu lets the user to add a new transducer, or view/edit the existing transducer information.

3.1 Adding a new Transducer

To add a new transducer, proceed as follows:

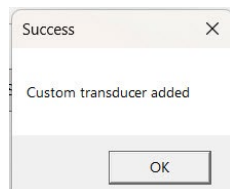


NOTE

Before you proceed, make sure that the necessary wiring is present on the transducer and it is connected to power source.

Make sure that the transducer is connected to the computer using the modbus communication cable or through a USB-C connector cable.

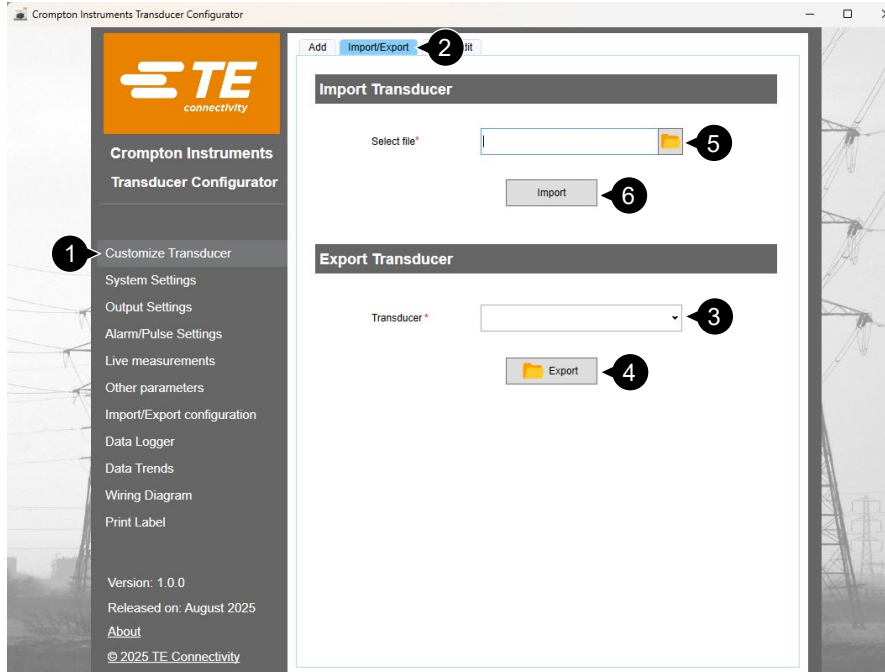
1. Click on the **Customize Transducer** menu.
2. Select the **Add** tab.
3. On the **Add Transducer** page, enter the desired name for the transducer.
4. Select the **Transducer Model** to be configured from the drop-down list.
5. Select the PC communication **Port** to interface with the transducer from the drop-down list. To identify the PC communication port, open the **Device Manager** and then click on the **Ports** to find the Modbus COM Port.
6. Enter the **Node address** through which the connected transducer responds (in RS485 mode only). By default the node address is set to 1 at factory. If the connected transducer has been previously configured with a different node address, then enter the known node address 1-247.
7. Click the **Save** button to save the transducer information.
8. A **Success** confirmation message is shown after the transducer is added. Click **OK**.



3.2 Import / Export

The Import / Export menu allows the user to import an existing transducer configuration that has already been setup by another user. A typical example could be that another user in the same factory/office has already setup multiple transducers in the Crompton Transducer Configurator software on their PC. A new user wishes to monitor and setup or communicate with transducers with the same setup parameters. Rather than having to setup all the transducers again on their PC, this option allows user 1 to export his configuration and user 2 to import the same configuration to their PC.

User 1 can "Export" a txt file configuration and send to user 2, who can then "Import" the txt file to automatically configure the transducer(s) setup.

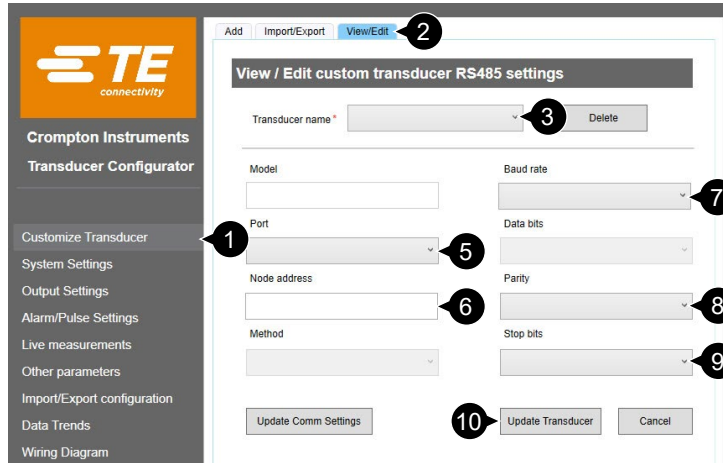


To import / export transducer details, proceed as follows:

1. Click on the **Customize Transducer** menu.
2. Select the **Import/Export** tab.
3. On the **Export Transducer** select the **Transducer(s)** from the drop-down list.
4. Click on **Export** for the txt file configuration.
5. On the **Import Transducer** select the txt file.
6. Click on **Import**.

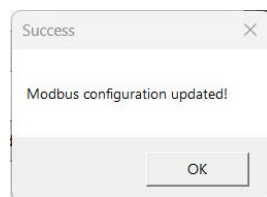
3.3 View / Edit Custom Transducer details

The view/edit menu lets the user to view, modify, or delete the communication settings configured to the transducer.



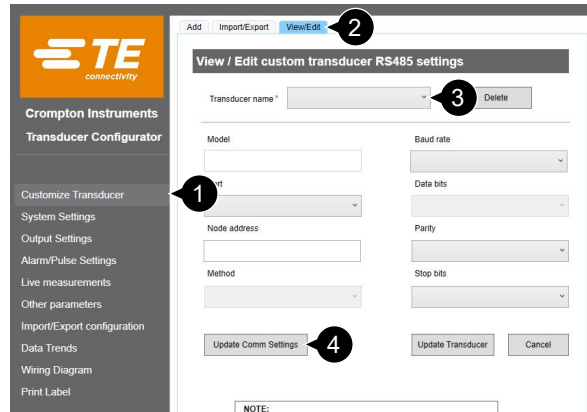
To view/edit transducer details, proceed as follows:

1. Click on the **Customize Transducer** menu.
2. Select the **View/Edit** tab.
3. On the **View / Edit custom transducer details** page, select the **Transducer** from the drop-down list. The page will show the present transducer and modbus communication settings with respective values.
4. If required, modify the transducer and communication settings to your preferences.
5. Select the **Port** from the drop-down list.
6. Enter the modbus **Node address**.
By default the node address is set to 1 at factory. If the connected transducer has been previously configured with a different node address, then enter the known node address 1-247.
7. Select the **Baudrate** (speed of data communication) from the drop-down list.
8. Select the type of **Parity** encoding to be used from the drop-down list.
9. Select the **Stopbits** from the drop-down list.
10. When you have entered all the transducer parameters, click **Update Transducer**.
11. A confirmation message is shown after the communication settings are updated for the transducer. Click **OK**.

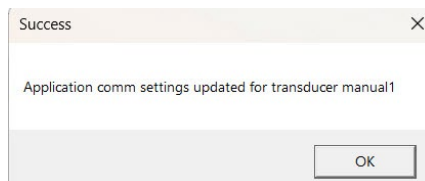


3.3.1 Updating the communication settings

If you need to update the communication settings of the software to communicate with a previously configured transducer, proceed as follows:

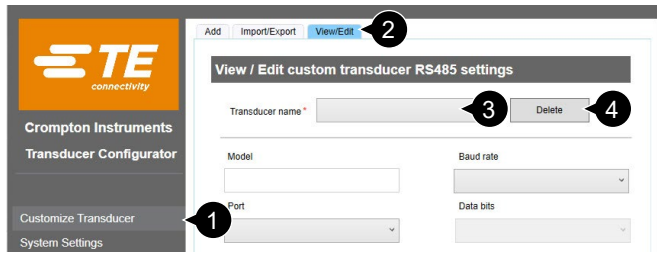


1. Click on the **Customize Transducer** menu.
2. Select the **View/Edit** tab.
3. On the **View / Edit custom transducer details** page, select the **Transducer** from the drop-down list. The transducer's default/previously configured values will be shown automatically.
4. Click **Update comm settings** button.
5. A Success confirmation message is shown after the communication settings are updated for the transducer.

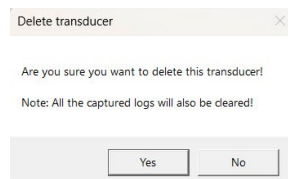


3.3.2 Deleting the transducer

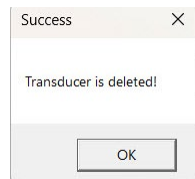
To delete the complete information of the transducer from the configurator application, proceed as follows:



1. Click on the **Customize Transducer** menu.
2. Select the **View/Edit** tab.
3. On the **View / Edit custom transducer details** page, select the **Transducer** you wish to delete from drop-down list.
4. Click **Delete**.
5. You will receive a confirmation message "Are you sure you want to delete this transducer!". Click **Yes**. The transducer information and all the captured logs will be cleared from the configurator application.



6. A **Success** confirmation message is shown after the transducer is deleted. Click **OK**.



4. System Information

The system menu enables the users to view, program and update various system parameters of the selected transducer.

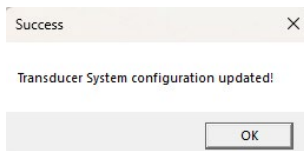
The screenshot shows the 'System Settings' page of the Crompton Instruments Transducer Configurator. The left sidebar contains a menu with options: Customize Transducer, System Settings (highlighted), Output Settings, Alarm/Pulse Settings, Live measurements, Other parameters, Import/Export configuration, Data Trends, Wiring Diagram, and Print Label. The main content area is titled 'System Settings' and contains the following fields:

- Transducer name: Oct Test 1
- System type: 3 Phase 4 Wire Unbalanced
- CT direction: Normal
- Are you using a VT (Voltage Transformer?):
- System voltage(V): 277
- Secondary voltage(V): 277
- System current(A): 1
- Secondary current(A): 1
- System frequency(Hz): 50
- Firmware version - build: 1.01 - 55
- Demand period(m): 60
- Low power limit: Disable

At the bottom of the form are 'Update' and 'Cancel' buttons.

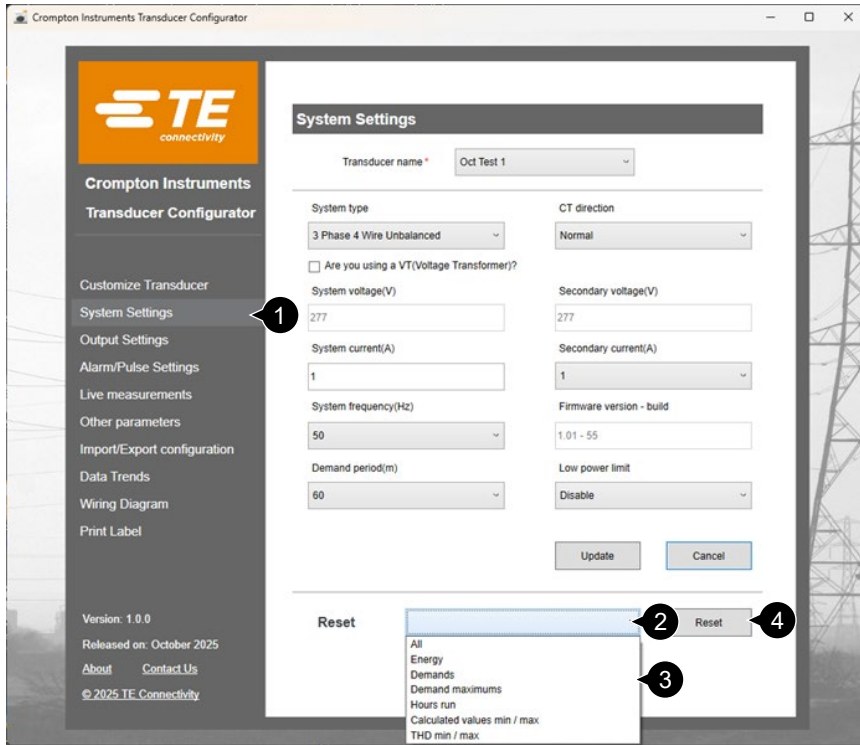
To update the system parameters, proceed as follows:

1. Click on the **System Settings** menu.
2. On the **System Information** page, select the **Transducer** from the drop-down list. The configurator application will read the present/last configured settings of the transducer and displays the values of the respective parameters.
3. Select the **System type** from the drop-down list.
4. If you are using a voltage transformer, check the “Are you using a VT (Voltage Transformer)?” box. If not, leave unchecked.
5. Enter the **System voltage (V)**. Set the primary voltage of the voltage transformer (PT) that may be connected to the transducer (10V – 999 kV). If no voltage transformer is connected then set the system voltage to the transducers nominal 277V.
6. Enter the maximum **System current (A)** that can be monitored according to the CT in use (1A to 9999A).
7. Select the **System frequency (Hz)** from the drop-down list.
8. Set the demand period required from the drop-down menu.
9. If necessary, select the **Current polarity correction** from the drop-down list. This is an option only to correct wiring errors without the need to physically rewire the transducer once installed. By default the current direction is set to forward on all the phases.
10. Enter the **Secondary voltage (V)**. Set the secondary voltage between 100-277V AC. If no voltage transformer is connected then set the secondary voltage to 277V.
11. Select the maximum **Secondary current (A)** that can be monitored according to the CT in use.
12. Enable the low power limit if required. Enabling means that power / energy readings under 1% of system nominal are not recorded / accumulated.
13. Click the **Update** button.
14. A **Success** confirmation message is shown after the transducer system configuration is updated. Click **OK**.



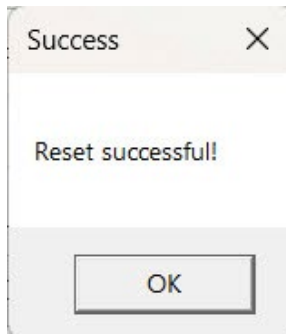
4.1 Reset Values

The reset option enables the users to reset all, or a specified selection of accumulated values recorded by the transducer.



To reset parameters, proceed as follows:

1. Click on the **System Settings** menu.
2. Click the **Reset** drop-down menu list.
3. Select “all” to reset all accumulated values, or select a specific recorded value to reset e.g. Energy, or Demand information.
4. Click the **Reset** button.
5. A reset successful message is displayed. Click **OK**. Subject values have been reset on the transducer.



5. Output Settings

The output settings menu enables the user to view, program and update features pertaining to the output(s) parameters of the selected transducer.

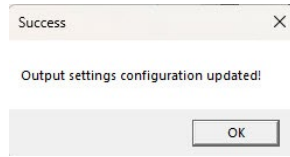
The screenshot shows the TE Connectivity Transducer Configurator interface. The sidebar on the left contains the following menu items: Customize Transducer, System Settings, Output Settings (highlighted with a circled '1'), Alarm/Pulse Settings, Live measurements, Other parameters, Import/Export configuration, Data Trends, Wiring Diagram, and Print Label. The main area is titled 'Transducer name' and shows 'Oct Test 1' (circled '2'). Below this, the 'CH1' configuration is shown with the following settings: 'Output enabled' set to 'Enable' (circled '3'), 'Output type' set to 'Linear (2 point)' (circled '4'), 'Input' set to 'V1' (circled '5'), 'Output (V - mA)' with radio buttons for 'V' and 'mA' (circled '10'), 'Input (Min)' set to '0' (circled '6'), 'Output (Min)' set to '4' (circled '11'), 'Input (Mid)' set to '200' (circled '7'), 'Output (Mid)' set to '12' (circled '12'), 'Input (Max)' set to '400' (circled '8'), 'Output (Max)' set to '20' (circled '13'), and 'Input unit prefix' set to 'None' (circled '9'). The 'Max output limit' is set to 'Enable' (circled '14'). A graph at the bottom shows a linear relationship between Input and Output. At the bottom right, there are 'Update' (circled '15') and 'Cancel' buttons. The sidebar also includes version information: Version: 1.0.0, Released on: October 2025, and links for About and Contact Us.

To update the output parameters, proceed as follows:

1. Click on the **Output Settings** menu.
2. On the **Output Settings** page, select the **Transducer** from the drop-down list.
The configurator application will read the present/last configured settings of the transducer and displays the values of the respective parameters.
3. To enable Channel 1 Output, select the "**Output enabled**" dropdown menu and click "**Enable**".
4. From the output type drop down, select if the output is to be Linear 2 point e.g. 4-20 mA or Dual Slope e.g. 4-16-20 mA.
5. Select the input parameter from which the transducer output channel will provide a proportional output signal.
6. Type the minimum value of the input parameter from which the transducer is required to provide a proportional output.
7. Type the middle value of the input parameter from which the transducer is required to provide a proportional output (only available if Linear Dual Slope Output was selected in step 4).
8. Type the maximum value of the input parameter from which the transducer is required to provide a proportional output.
9. Set the input unit prefix that relates to the input min / mid / max numbers. Select from none, kilo, mega or giga.
E.g. if input parameters min / mid / max relate to Power, this will set the transducer to consider the numbers inputted are in watts, kilowatts, megawatts or gigawatts.
10. Using the radio buttons, select if the output from the channel should be in volts (V) or Current (mA).
11. Type the minimum value of the output signal (relates to input min).
12. Type the middle value of the output signal from which the transducer is required to provide a proportional output (only available if Linear Dual Slope Output was selected in step 4). Relates to input mid.
13. Type the maximum value of the output signal (relates to input max).
14. From the drop down menu, select if the transducers Max output limit should be enabled or disabled.
E.g. if max output limit is enabled, the transducer ceases to produce an output when the figure in step 13 is reached. If disabled, the transducer continues to produce an output when the max figure is reached i.e. in a situation of overload of the input signal.

15. Click the **Update** button to submit the chosen channel output settings to the transducer.

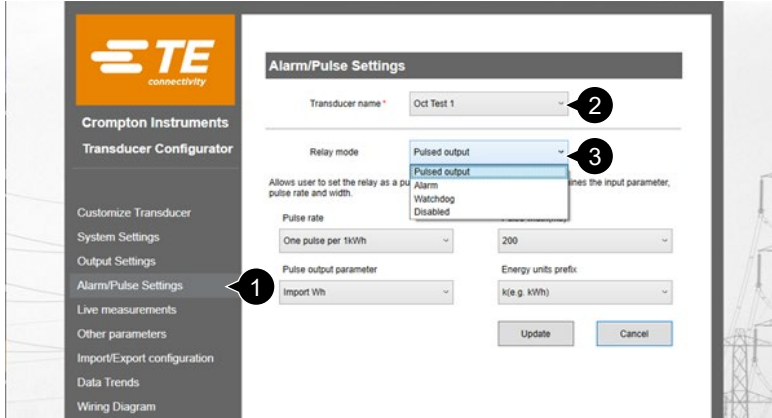
16. A **Success** confirmation message is shown after the transducer output channel settings are updated. Click **OK**.



17. Repeat the above steps for any remaining output channels (2 to 4 outputs are available depending on which transducer model is under configuration).

6. Alarm/Pulse Settings

The Alarm/Pulse Settings menu enables the user to view, program and update parameters pertaining to the Alarm / Pulse setting(s) parameters of the selected transducer. The relay output can be utilised as an alarm output, a pulsed output or a watchdog output. It can also be disabled entirely if required.

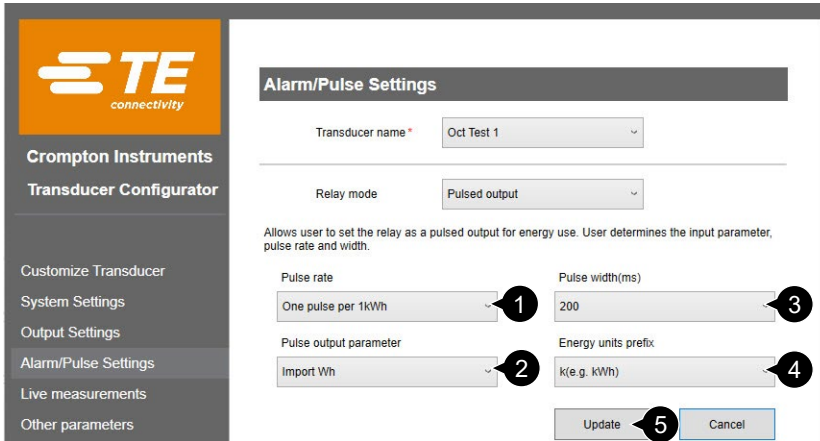


To update the Alarm/Pulse Output parameters, proceed as follows:

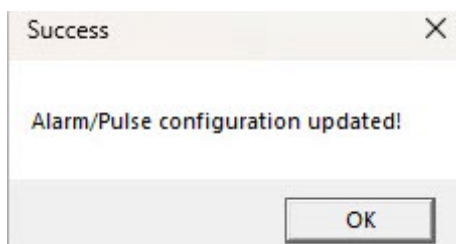
1. Click on the **Alarm/Pulse Settings** menu.
2. On the **Alarm/Pulse Settings** page, select the **Transducer** from the drop-down list. The configurator application will read the present/last configured settings of the transducer and displays the values of the respective parameters.
3. From the drop-down menu, select either “Pulsed Output”, “Alarm”, “Watchdog”, or “Disabled” as required.

6.1 Pulsed Outputs

With Pulsed Output selected, the parameters for a pulsed output can be set as below:



1. Set the **Pulse rate** required from the drop-down menu.
2. Set the electrical parameter to which the pulsed output responds.
3. Set the **Pulse width** from the available options.
4. Set the **Energy Units Prefix** that relate to the parameter selected in step 2.
5. Click the **Update** button.
6. A **Success** confirmation message is shown after the transducer Alarm/Pulse configuration settings are updated. Click **OK**.



6.2 Alarm

With Relay Mode “Alarm” selected, the parameters for an alarm output can be set as below:

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Transducer Configurator

Customize Transducer
System Settings
Output Settings
Alarm/Pulse Settings
Live measurements
Other parameters
Import/Export configuration
Data Trends
Wiring Diagram

Alarm/Pulse Settings

Transducer name * Oct Test 1

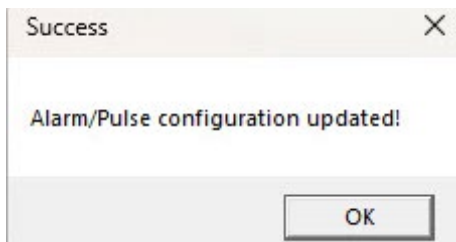
Relay mode Alarm

Allows user to select an input parameter to monitor and set a high or low trip that activates the output relay in the event of an unfavorable condition.

Alarm input	V1	Alarm mode	High trip
Alarm threshold (V)	255	Alarm hysteresis (%)	5
Alarm relay type	NC	Alarm delay (s)	1

Update Cancel

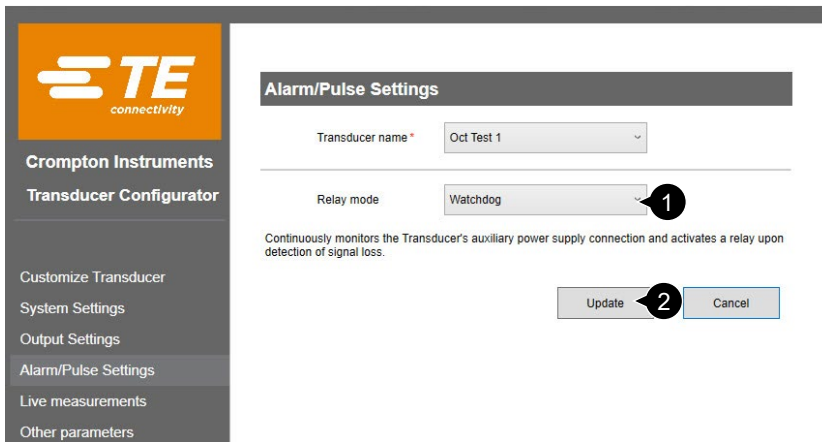
1. Set the **Alarm Input** parameter to be monitored from the available options.
2. Set the threshold of the parameter selected in step 1 at which the alarm should respond.
3. Set the **Alarm relay** output to be **NC** (normally closed) or **NO** (normally open).
4. Set the **Alarm mode** to “**High Trip**” or “**Low Trip**”.
This setting determines if the alarm responds when the selected parameter in step 1 exceeds the figure set in step 2, or if the alarm responds when the measured value falls below the figure set in step 2.
5. Set the **hysteresis** of the alarm in % of the figure set in step 2.
When a hysteresis % is placed on an alarm, the alarm will only switch off once the measured value has crossed back inside the alarm upper or lower limit with the hysteresis % added.
6. Set the **Alarm delay** in seconds.
This setting sets a delay in the response of the alarm. If the alarm threshold is reached and a delay number above 0 is set, the alarm relay only activates if the threshold is exceeded for at least the time specified here.
7. Click the **Update** button.
8. A **Success** confirmation message is shown after the transducer Alarm/Pulse configuration settings are updated. Click **OK**.



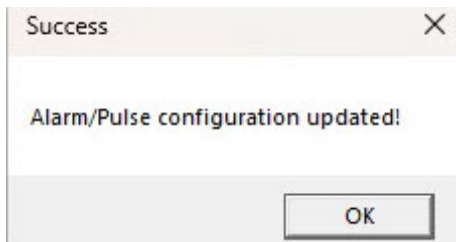
6.3 Watchdog

With watchdog selected, the relay mode acts as a watchdog. When the **“WATCHDOG”** mode is selected, the Photo-Mos output (which is normally open by nature) closes, and remains closed as long as the transducer is powered on, and properly operating: this allows the user to monitor its state, and to assess the operating state of the transducer.

This can be set as below:



1. Set the **Watchdog** mode from the drop-down menu.
2. Click the **Update** button.
3. A **Success** confirmation message is shown after the transducer Alarm/Pulse configuration settings are updated. Click **OK**.



7. Live measurements

The live measurements menu allows the user to view various parameters of the selected transducer.

To view the live measurements, proceed as follows:

TE connectivity
Crompton Instruments
Transducer Configurator

Customize Transducer
System Settings
Output Settings
Alarm/Pulse Settings
Live measurements
Other parameters
Import/Export configuration
Data Trends
Wiring Diagram
Print Label

Live measurements

Transducer name * Oct Test 1 **2** Start Auto Refresh **4** Print

	Phase 1	Phase 2	Phase 3	Average	Sum
Voltage (V)	0	0	0	0	N/A
Current (A)	0	0	0	0	0
Active Power (W)	0	0	0	N/A	0
Apparent Power (VA)	0	0	0	N/A	0
Reactive Power (Var)	0	0	0	N/A	0
Power Factor	-1	-1	-1	-1	N/A
Phase Angle	0	0	0	0	N/A
Voltage THD (%)	0	0	0	0	N/A
Current THD (%)	0	0	0	0	N/A
Current Demand	0	0	0	N/A	N/A
Current Max. Demand	0	0	0	N/A	N/A

Voltage (V) L1-L2	0
Voltage (V) L2-L3	0
Voltage (V) L3-L1	0
Voltage (V) L-L Average	0
Frequency	0
Active Energy (Imp)	0
Active Energy (Exp)	0
Reactive Energy (Imp)	0
Reactive Energy (Exp)	0

VA Hours	0
I Neutral	0
I Neutral Demand	0
I Neutral Demand Max	0
Active Power (Imp) Demand	0
Active Power (Imp) Demand Max	0
VA Demand	0
VA Demand Max	0

1. Click on the **Live measurements** menu.
2. On the **Live measurements** page, select the **Transducer** from the drop-down list.
3. The application shows the live readings of different parameters of the selected transducer.
4. Click on the **Start Auto refresh** button, the parameters reading will refresh as per preset interval. While the auto refresh is turned ON, the other menu options of the software are disabled.
5. Click on the **Stop Auto refresh** button to stop the auto refresh.

TE connectivity
Crompton Instruments
Transducer Configurator

Customize Transducer
System Settings
Output Settings
Alarm/Pulse Settings
Live measurements
Other parameters
Import/Export configuration
Data Trends
Wiring Diagram
Print Label

Live measurements

Transducer name * Oct Test 1 **5** Stop Auto Refresh Print

With Start Auto Refresh initiated, the Transducer software will not respond to any other commands until stop auto refresh button is pressed.

	Phase 1	Phase 2	Phase 3	Average	Sum
Voltage (V)	0	0	0	0	N/A
Current (A)	0	0	0	0	0
Active Power (W)	0	0	0	N/A	0
Apparent Power (VA)	0	0	0	N/A	0
Reactive Power (Var)	0	0	0	N/A	0
Power Factor	-1	-1	-1	-1	N/A
Phase Angle	0	0	0	0	N/A
Voltage THD (%)	0	0	0	0	N/A
Current THD (%)	0	0	0	0	N/A
Current Demand	0	0	0	N/A	N/A
Current Max. Demand	0	0	0	N/A	N/A

Voltage (V) L1-L2	0
Voltage (V) L2-L3	0
Voltage (V) L3-L1	0
Voltage (V) L-L Average	0
Frequency	0
Active Energy (Imp)	0
Active Energy (Exp)	0
Reactive Energy (Imp)	0
Reactive Energy (Exp)	0

VA Hours	0
I Neutral	0
I Neutral Demand	0
I Neutral Demand Max	0
Active Power (Imp) Demand	0
Active Power (Imp) Demand Max	0
VA Demand	0
VA Demand Max	0

8. Reading other Parameters

Other Parameters enables the users to view the various parameters of the selected transducer.

The screenshot shows the TE Connectivity Transducer Configurator interface. On the left is a sidebar menu with the following items: Customize Transducer, System Settings, Output Settings, Alarm/Pulse Settings, Live measurements, Other parameters (highlighted with a callout 1), Import/Export configuration, and Data Trends. The main area is titled 'Read parameter' and contains the following fields: 'Transducer name*' with a dropdown menu showing 'Oct Test 1' (callout 2), 'Register type*' with a dropdown menu (callout 3), 'Parameter*' with a dropdown menu (callout 4), and a 'Value' input field (callout 6). A 'Read' button (callout 5) is located below the 'Value' field.

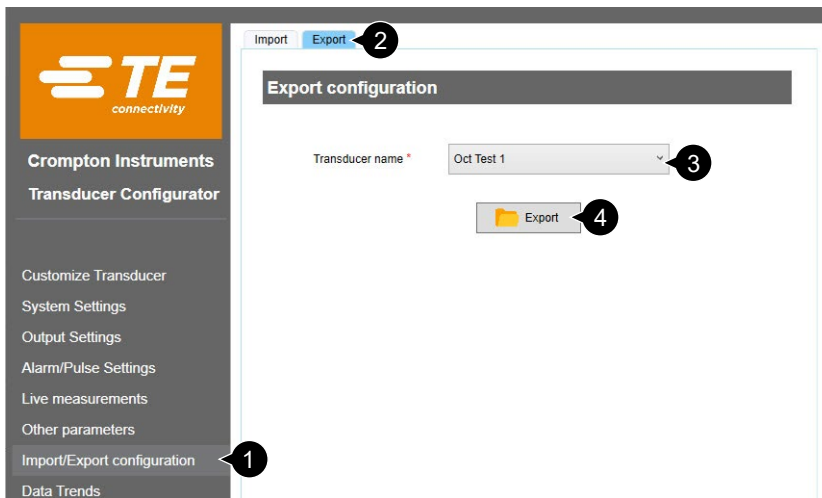
To view the other parameters, proceed as follows:

1. Click on the **Other parameters** menu.
2. On the **Other Parameters** page, select the **Transducer** from the drop-down list.
3. Select transducer **Register type** i.e Input Register / Holding Register.
4. Select the electrical **parameter** to view the live reading.
5. Click on the **Read** button.
6. The live value measured for the selected electrical parameter is shown.

9. Import / Export configuration

This feature allows the user to save the configuration settings of system, output, alarm/pulse, and communication settings and apply them to another transducer. Saving time on setting up multiple transducers that share the same setup arrangement.

9.1 Export a configuration

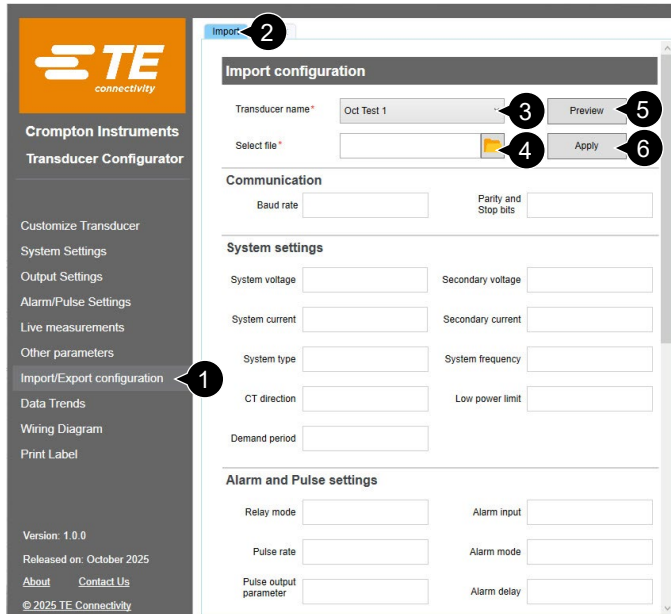


To export a configuration file of the selected transducer, proceed as follows:

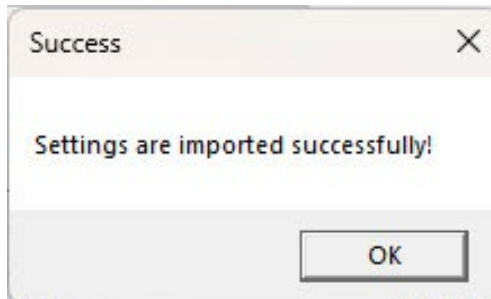
1. Click on the **Import/Export configuration** menu.
2. Click on the **Export** tab.
3. On the **Export configuration** page, select the **Transducer** from the drop-down list.
4. Click on the **Export** button.
5. Follow the standard Windows procedure for saving the **CSV text file** to the desired location on your computer.

9.2 Import a configuration

To import a configuration, proceed as follows:



1. Click on the **Import/Export configuration** menu.
2. Click on the **Import** tab.
3. On the **Import configuration** page, select the **Transducer** from the drop-down list to which the imported settings will apply.
4. Click on **Select file**.
Follow standard Windows procedures to find and locate your previously saved configuration CSV file.
5. Click the **Preview** button. All settings about to be imported and applied to the transducer connected will now be available to preview.
6. Check everything seems correct and press the “**Apply**” button.
7. A **Success** confirmation message is shown after the settings are imported successfully. Click **OK**.

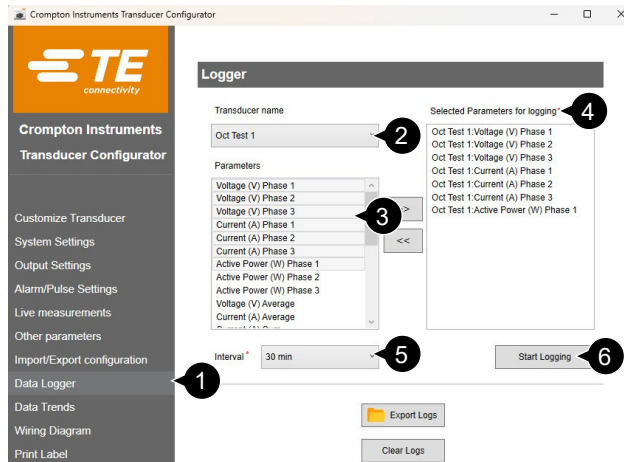


10. Data logging

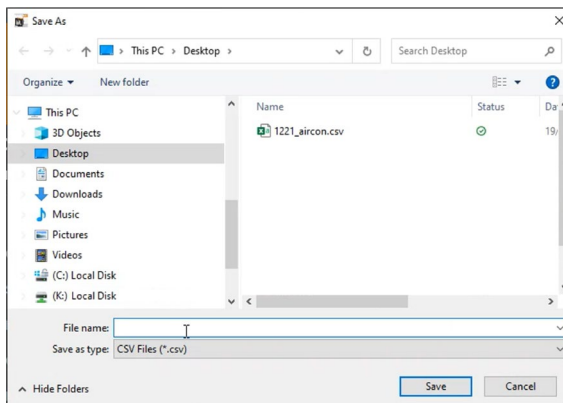
The Transducer Configurator is loaded with data logger feature which will enable the user to automatically log data of their preferred electrical parameters. These logs can then be exported into .csv file format for exploring the data points. (Available in RS485 mode only).

10.1 Starting and stopping the data logger

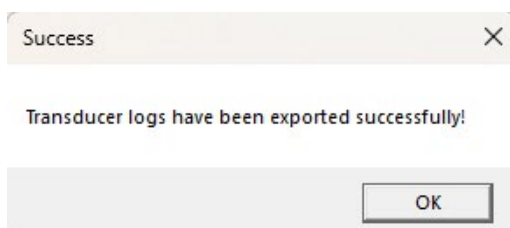
To start or stop the data logger, proceed with the following steps:



1. Click on the **Data logger** menu.
2. On the **Logger** page, select the **Transducer** from the drop-down list.
3. Select the **Parameters** to be logged and click >> to confirm the parameters and add to **Selected Parameters for logging** list.
4. To log parameters for another transducer, repeat the steps 2 - 3.
5. After selecting the required parameters for logging, select the **Interval** at which the data should be logged.
6. Click **Start logging** to start logging the data of selected parameters. While logging is turned ON, the other menu options of the software are disabled.
7. To stop the data logging, click **Stop logging**.
8. To export the logged data into .csv file format, click **Export Logs**.
9. In the **Save As** dialogue box, enter the file name and select the folder in which the file should be saved.
10. Click **Save**.



11. A **Success** confirmation message is shown after the transducer logs are exported. Click **OK**.



11.2 Exporting the logs

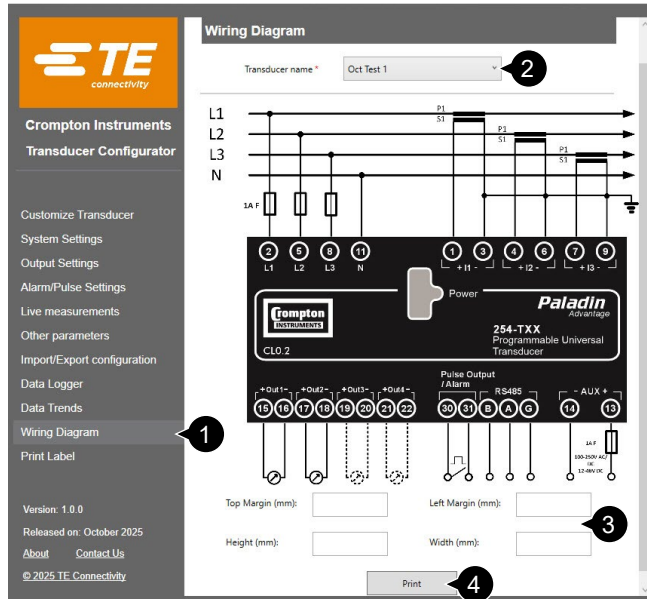
To export your logged information for analysis, follow the steps 1-6 above, and click the “export” button. Follow the standard Windows procedure for saving the CSV text file to the desired location on your computer.

12. Wiring Diagram

The wiring diagram page allows the user to reveal the wiring diagram for the selected transducer. The wiring diagram presented is linked to the wiring system identified as the “system type” in section 4.

The wiring diagram can also be printed from the app, if required for labelling of the transducer.

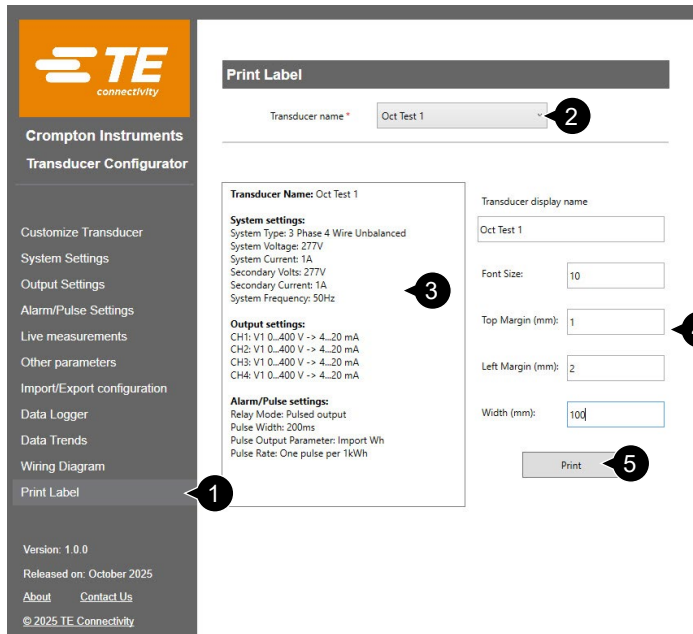
To view the wiring diagram for the selected transducer, proceed as follows:



1. Click on the **Wiring Diagram** menu.
2. Select the **Transducer** from the drop-down list for which the wiring diagram will relate.
3. If printing, set your desired width, height and margins.
4. Click the **Print** button.
5. Wiring diagram can be printed to a connected Windows printer, or saved as a PDF for further sizing, orienting offline.

13. Print Label

The print label feature allows the user to print a label displaying the programmed features of the selected transducer. To view and print a specification label for a transducer(s), proceed as follows:



1. Click on the **Print Label** menu.
2. Select the **Transducer** from the drop-down list for which the label will relate.
3. The previously set transducer name, system settings, output settings and alarm/pulse settings will appear on screen.
4. Set your desired font size, margins and width.
5. Click on the **Print** button.
6. Label can be printed to a connected Windows printer, or saved as a PDF for further sizing, orienting offline.