

User Manual

## ProgaLog 4000

PC configuration tool for transmitters



Read before installation.  
Keep for future use.

[www.knick.de](http://www.knick.de)



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# 1 Requirements

## 1.1 Hardware

- CPU: 1 GHz Pentium or comparable processor
- RAM: 512 MB
- Graphics card: 1024 x 768 True Color, 32-bit
- USB 2.0
- Hard drive: 700 MB

## 1.2 Operating System

- Windows 7<sup>1)</sup>/8/10 (32-bit and 64-bit versions)
- Microsoft .Net Framework 4.6 (included in Windows 8/10)

## 1.3 Software Version

This document is valid from ProgaLog 4000, SW version 1.0.x.

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<sup>1)</sup> If using a PC with Windows 7, ensure that Microsoft .Net Framework 4.6 is installed (free download from → [www.microsoft.com](http://www.microsoft.com)) before installing ProgaLog 4000.

## 2 Intended Use

The ProgaLog 4000 PC software is used to create configuration files for devices in the Protos II 4400(X) and Stratos Multi E401N/X, E461N, E471N product lines. New configurations can be created and existing ones modified.

The menu structure in ProgaLog 4000 is the same as for the selected device.

Completed configuration files can be saved. The configuration file can be transferred between the PC and the device using the ZU1080 Data Card.

### Memory Cards

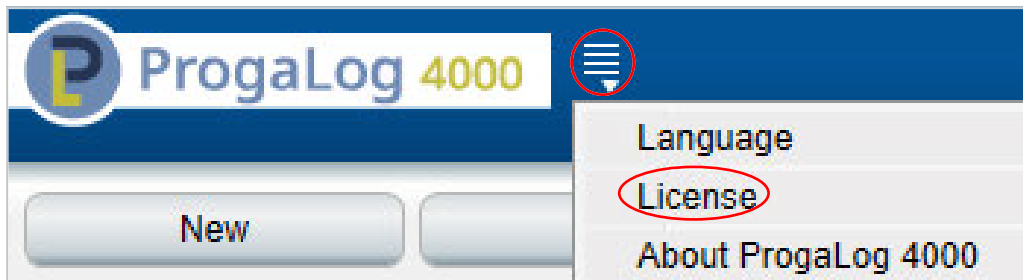
Protos II 4400(X): ZU1080-P-\*-D Data Card

Stratos Multi: ZU1080-S-\*-D Data Card

### 3 Installation and Entry of License Key

01. Connect the USB stick to a USB port on the computer.
02. Run the file ProgaLog4000Setup.exe from the USB stick.
03. Select the installation language.
04. Follow the instructions on the screen.
05. Complete the installation.
06. Start the PC software by double-clicking on ProgaLog4000.exe. The first time, the software starts in DEMO mode.
07. Enter the license key to terminate DEMO mode.

**Note:** The license key can be found in the Installation Guide contained in the ProgaLog 4000 packaging.



## 4 Select Language

### Operator Languages



Select the operator language: German, English, Spanish, French, Italian, Portuguese, Chinese, Korean

**Note:** ProgaLog 4000 restarts after the operator language has been selected.

## 5 Overview of Menus



### 5.1 New

Create a new configuration file.

### 5.2 Load

Load and open an existing configuration file.

**Note:** Before creating or loading a configuration file, any existing configuration that is currently open should be saved by clicking on "Save". If you do not do this, it will be overwritten.

Load the configuration file from the file system or Data Card.

If using the Data Card: Select the USB drive.

### 5.3 Save

This saves the current configuration in ProgaLog 4000.

Save location: PC or memory card (Data Card) ZU1080.

After saving on the Data Card, the configuration can be loaded to the device.

### 5.4 Export

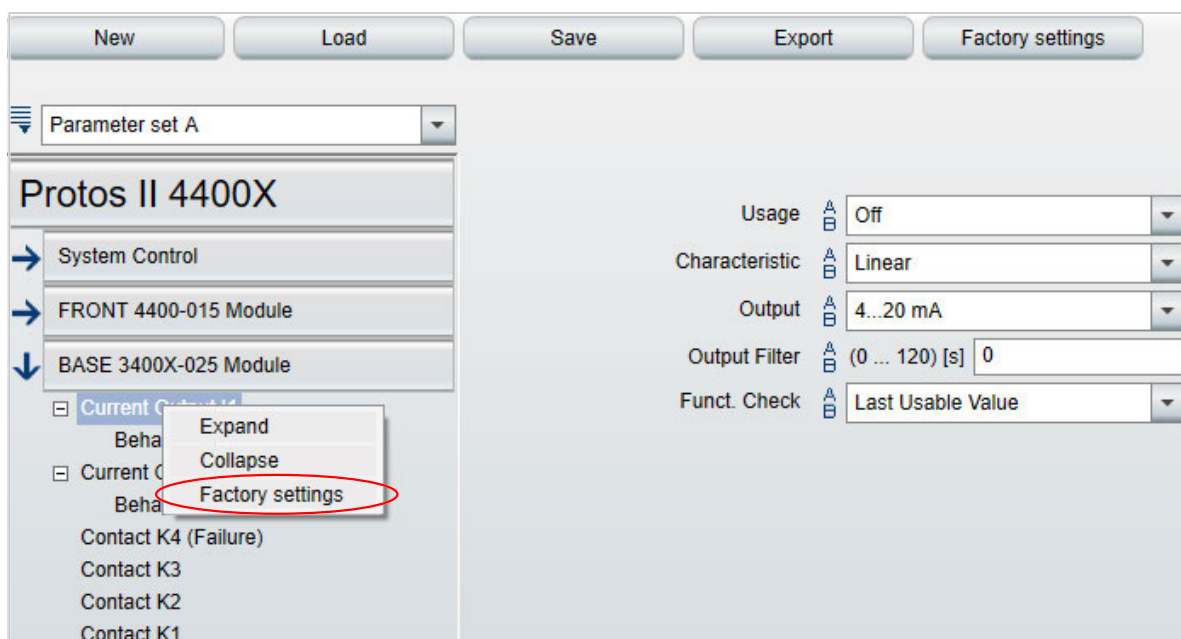
The configuration file can be exported and saved. All entered configuration data is listed in the file.

Text, PDF, and Excel file formats are available.

### 5.5 Factory Setting

Resets the entire configuration in ProgaLog 4000.

Individual settings can also be reset. Select a menu item and open the selection menu with the right mouse button. If you select "Factory Setting," only the settings for this menu item will be reset to their factory settings.



## 6 Configuration

After selecting the device type, information on the configuration file is shown on the right.

Example:

<b>Protos II 4400</b>	File:
→ System Control	File date: 1/25/2022 1:05:32 PM
→ FRONT 4400-011 Module	Device: Protos II 4400
	Firmware version: 01.00.xx
	Hardware version:

File	Configuration file name
File date	Date and time the configuration file was saved
Device	Name of the device
Firmware version	FRONT firmware version for Protos II 4400(X), firmware version for Stratos Multi.
Hardware version	The hardware version of the device in ProgaLog 4000

### 6.1 Parameter Set A/B

The screenshot shows the ProgaLog 4000 software interface. At the top, there is a blue header with the 'P' logo and 'ProgaLog 4000' text. Below the header are two buttons: 'New' and 'Load'. A dropdown menu is open, showing 'Parameter set A' selected. Below the dropdown, there is a list of parameter sets: 'Parameter set A' and 'Parameter set B'. A small 'P' icon is visible to the left of the list.

Like the devices, ProgaLog 4000 provides two fully selectable parameter sets (A/B) for different measuring tasks.

Configuration of parameter set "B" in ProgaLog 4000, like the device, only permits the setting of process-related parameters.


This screenshot is similar to the previous one, but the context menu for the dropdown is open. The menu items are 'Copy A to B' and 'Copy B to A'. The number '400' is visible in the bottom right corner of the interface.

The complete parameter set A can be copied to parameter set B and vice versa. This acts to facilitate configuration of the respective other parameter set, as all settings are applied and are easier to adjust.

The name of the device, firmware version, and hardware version can also be found in the device description in the device's Diagnostics menu.



## 6.2 Firmware Version

Protos II 4400	
→ System Control	File:
→ FRONT 4400-011 Module	File date: 1/25/2022 1:05:32 PM
	Device: Protos II 4400
	Firmware version:  01.00.xx
	Hardware version:

01. Update existing configuration files for new firmware version.
02. Load configuration file and select the new firmware version. With Protos II 4400(X), select the FRONT firmware version, with Stratos Multi the firmware version.

**Note:** If you change the firmware version, the Parameters menu updates to reflect the new version.

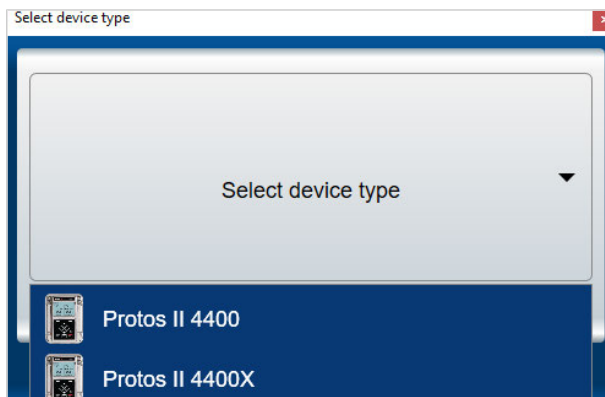
03. The new menu items can be configured after selecting the new firmware version. The configuration file can then be saved for the new firmware version.

Changes in firmware versions can be found in the ChangeLog document for the device on the website. → [www.knick.de](http://www.knick.de)

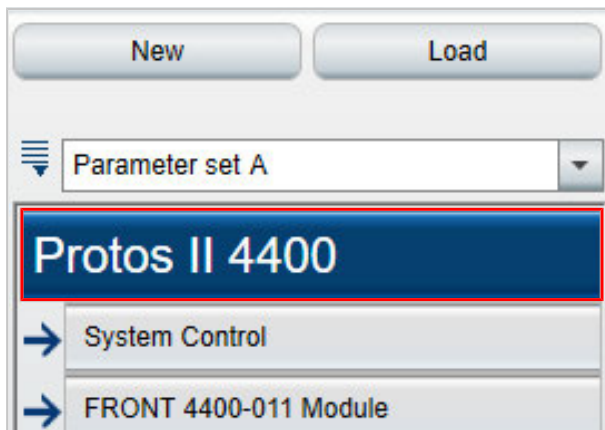
**Note:** The firmware version can be found in the device description in the device's Diagnostics menu.

## 6.3 Protos II 4400(X) Configuration

### 6.3.1 Create New Configuration File

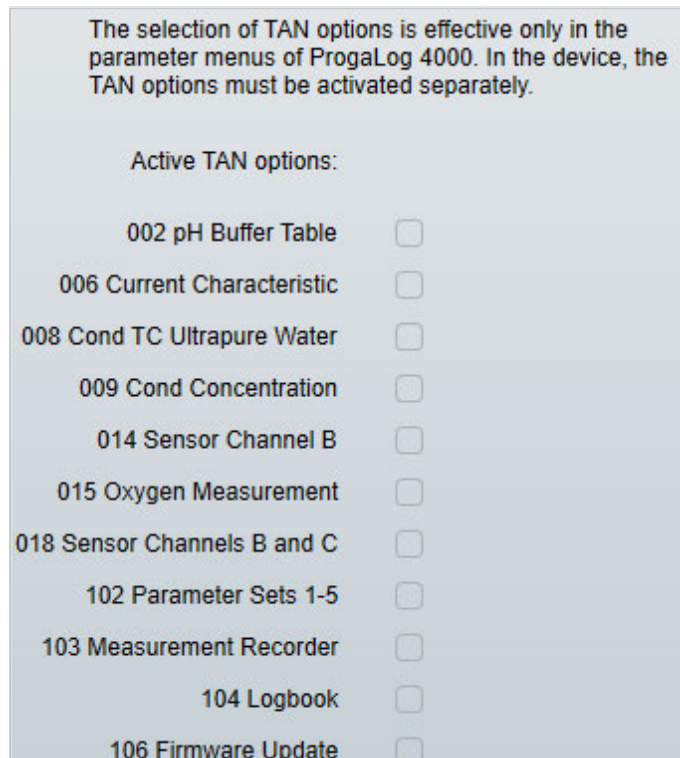


01. Select the device type: Open the list of devices and select the required device.
02. Select the FRONT firmware version and confirm by pressing OK. After confirming the FRONT firmware version, the FRONT module appears on the list.
03. Select TAN options:



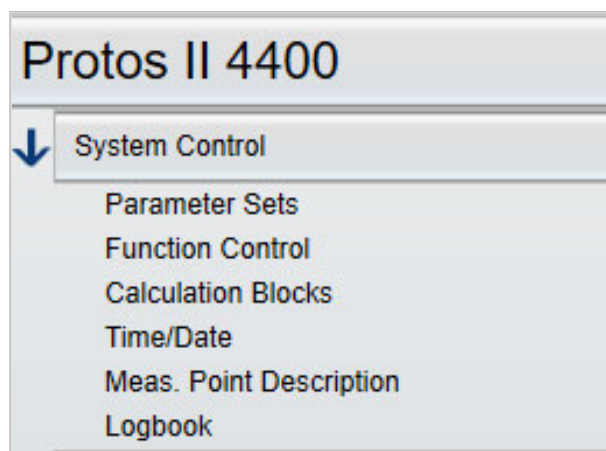
04. Click on the device name to open the overview of TAN options.

The TAN options available for the selected FRONT firmware version are shown.

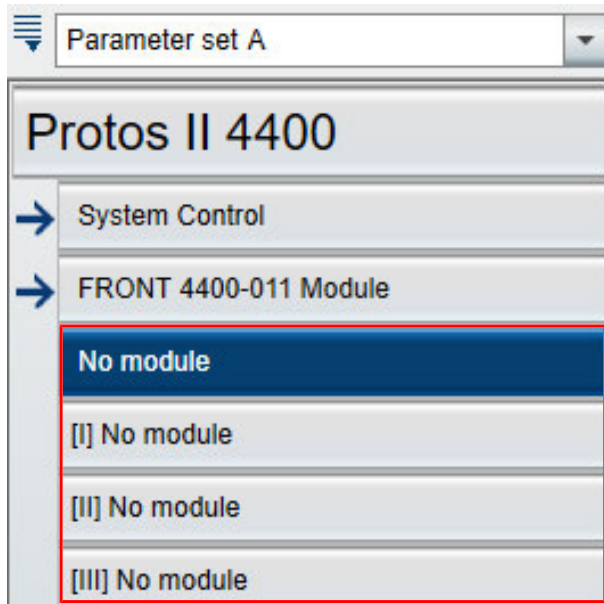


05. Select all TAN options that will later be available for selection in the device. TAN options can only be enabled and activated in the device.

06. Click on the arrow key to open the menu.



07. Choose the Protos II 4400(X) equipment via the module selection.

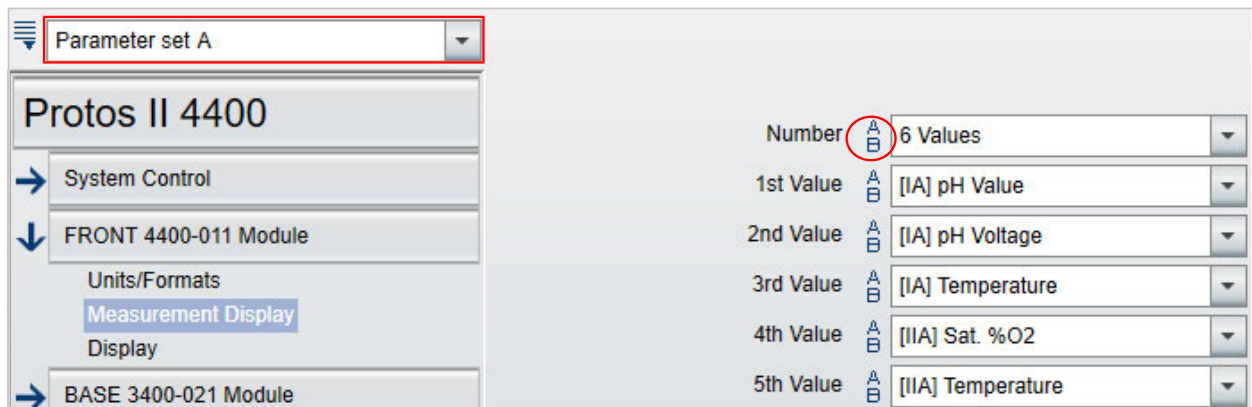


Select BASE module: The BASE module identifier is located on the Protos II 4400(X) nameplate.

Select measuring and communication modules: Select modules in the order of slots 1-3 in Protos II 4400(X).

08. The device can now be configured. More information on the different menu items can be found in the User Manuals for the devices and modules.

**Further notes for the Configuration menu**



The "A/B" to the left of each value indicates that this parameter can be adjusted for different parameter sets. You can select parameter sets A and B. → *Parameter Set A/B, p. 8*

Explanation using example [IA]:

I = module slot 1

A = 1. sensor on module with slot 1

**Note:** If you select MSU4400(X)-180, choose TAN option 018 "Sensor Channels B and C" to adjust the settings for up to 3 Memosens sensors on one module with [IA], [IB], and [IC].

### 6.3.2 Error Messages

The screenshot displays the configuration interface for the ProgaLog 4000. At the top left, a dropdown menu shows 'Parameter set A'. To its right, a red-bordered box contains an error icon and the text '1 Error(s)'. The main area is divided into a left sidebar and a right main panel. The sidebar, titled 'Protos II 4400', lists several modules: 'System Control', 'FRONT 4400-011 Module', 'BASE 3400-021 Module', '[I] MS 4400-160 Module', '[IA] Memosens pH', and '[II] MS 3400-160 Module'. The last item is highlighted in blue. The main panel shows details for the selected module: 'Module: MS 3400-160 Module', 'Firmware version:', 'Hardware version:', and 'Serial no.:'. A 'Remove module' button is present. Below this, there are dropdown menus for 'Variable' (set to 'Conductivity'), 'Operating Mode' (set to 'Memosens'), and 'Functionality' (highlighted with a red border).

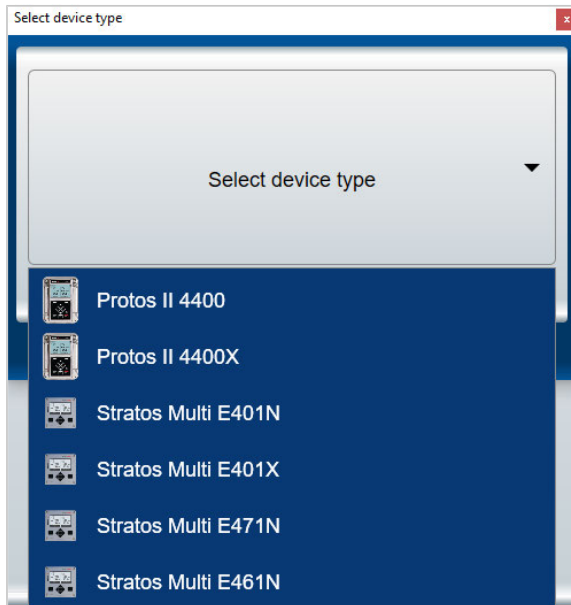
During configuration, ProgaLog 4000 checks to make sure the settings are correct.

If ProgaLog 4000 detects incorrect parameters, the message "[n] Error" appears and all incorrect parameters are marked in red. Click on the message to navigate to the first incorrect parameter.

The error messages are cleared when the menu settings are corrected.

## 6.4 Stratos Multi Configuration

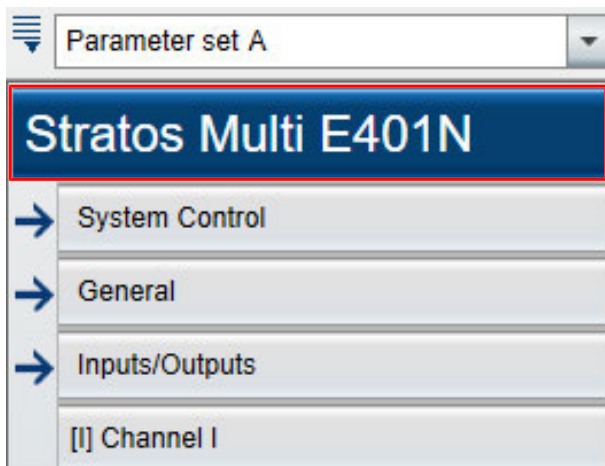
### 6.4.1 Create New Configuration File



01. Open the list of devices and select the required device.
02. Select the firmware version and confirm by pressing OK. After confirming the firmware version, the desired device is listed in ProgaLog 4000.

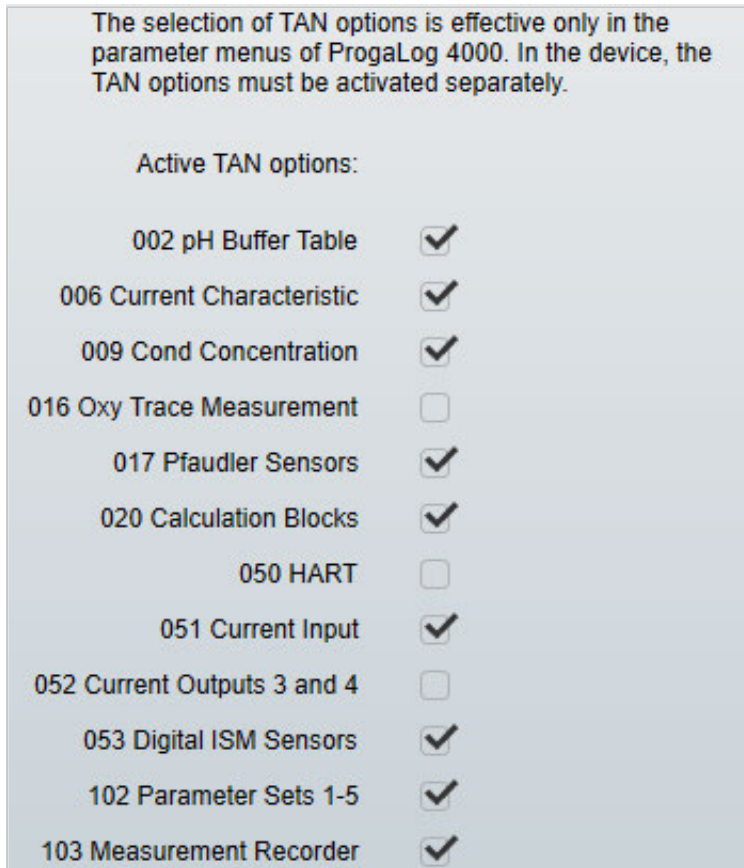
**Note:** The choice of firmware version determines the content of the menu in ProgaLog 4000 for the selected device.

03. Select TAN options:



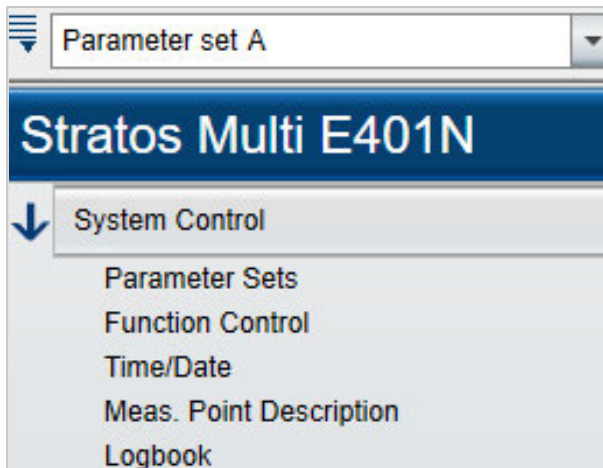
04. Click on the device name to open the overview of TAN options.

The TAN options available for the selected firmware version are shown.



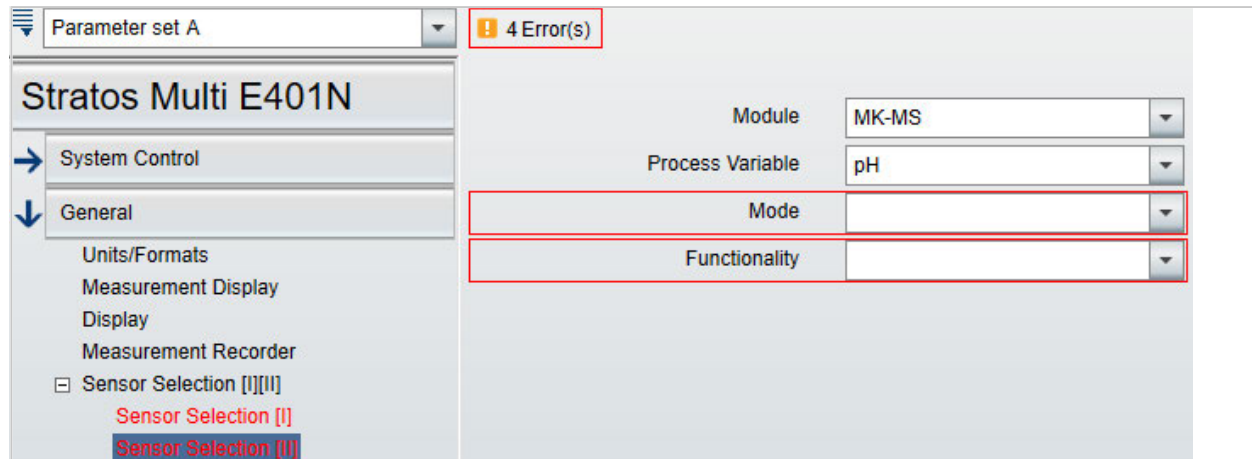
05. Select all TAN options that will later be available for selection in the device. TAN options can only be enabled and activated in the device.

06. Click on the arrow key to open the menu.



The device can now be configured. More information on the different menu items can be found in the User Manuals for the devices and modules.

## 6.4.2 Error Messages



During configuration, ProgaLog 4000 checks to make sure the settings are correct.

If ProgaLog 4000 detects incorrect parameters, the message “[n] Error” appears and all incorrect parameters are marked in red. Click on the message to navigate to the first incorrect parameter.

The error messages are cleared when the menu settings are corrected.







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