

How do I perform a quick setup of a TLA100?

Quick setup guide for a TLA100. The following article was written assuming you (reader) are familiar with Maretron configuration tools and products.

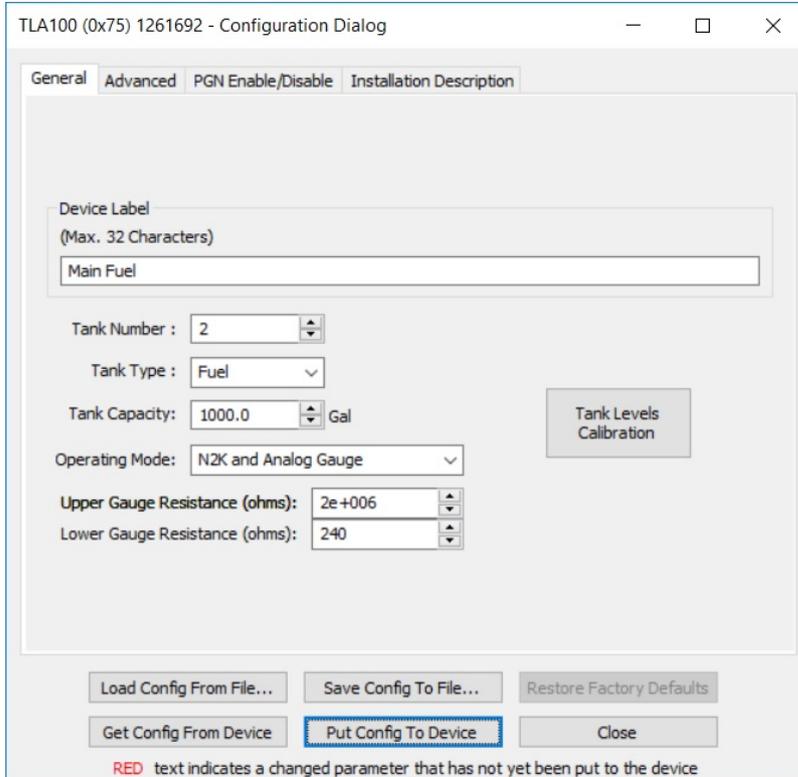
This article is intended for advanced users and NMEA certified Technicians who require quick references on general procedures when calibrating Maretron products with Maretron tools.

1. Start the N2KAnalyzer program on your PC. (N2KAnalyzer can be located here: <https://www.maretron.com/products/N2KAnalyzer.php>)
2. Connect your PC to your preferred Maretron gateway (IPG100 or USB100)
3. Select the TLA100 on the device list that you wish to configure. Once selected the row will change blue as shown below.

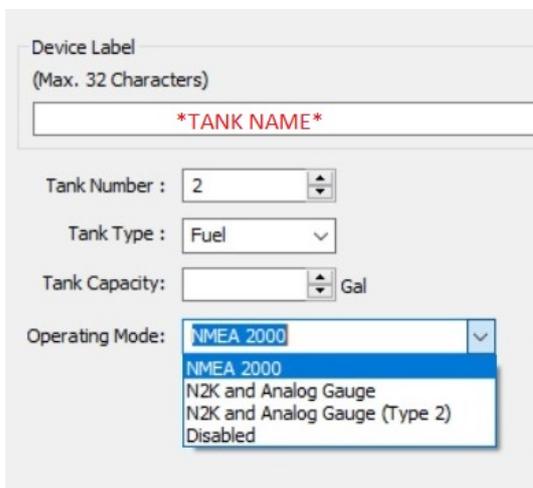
76	Maretron	TLA100	1.0	1261724
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4. Select menu item **Configure Device** from the drop down tab
Configure

5. The configuration dialog for the selected device will appear.

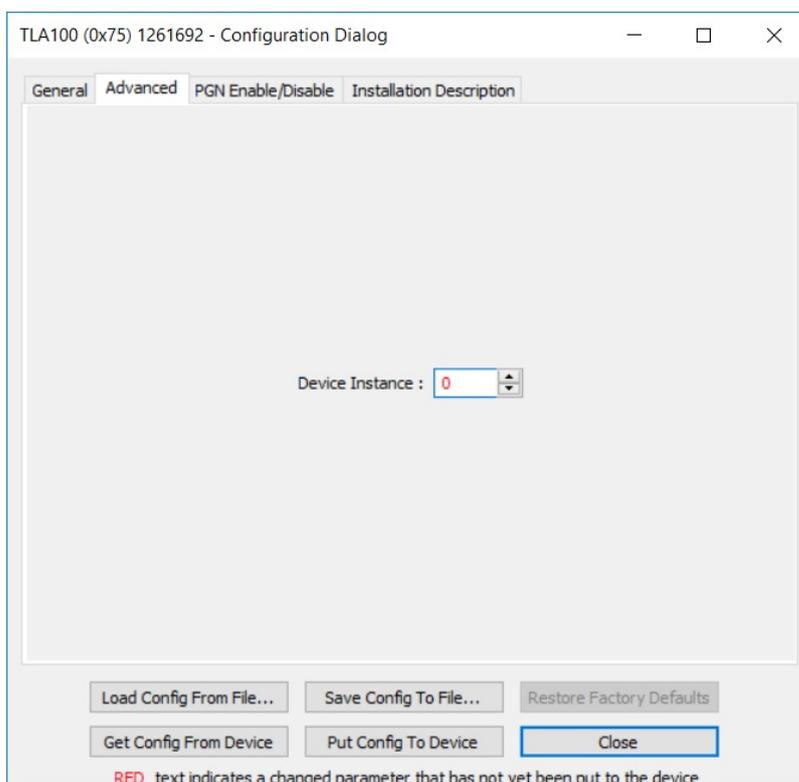


6. Within the TLA100 configuration dialog **General** tab add details of the TLA100 you installed

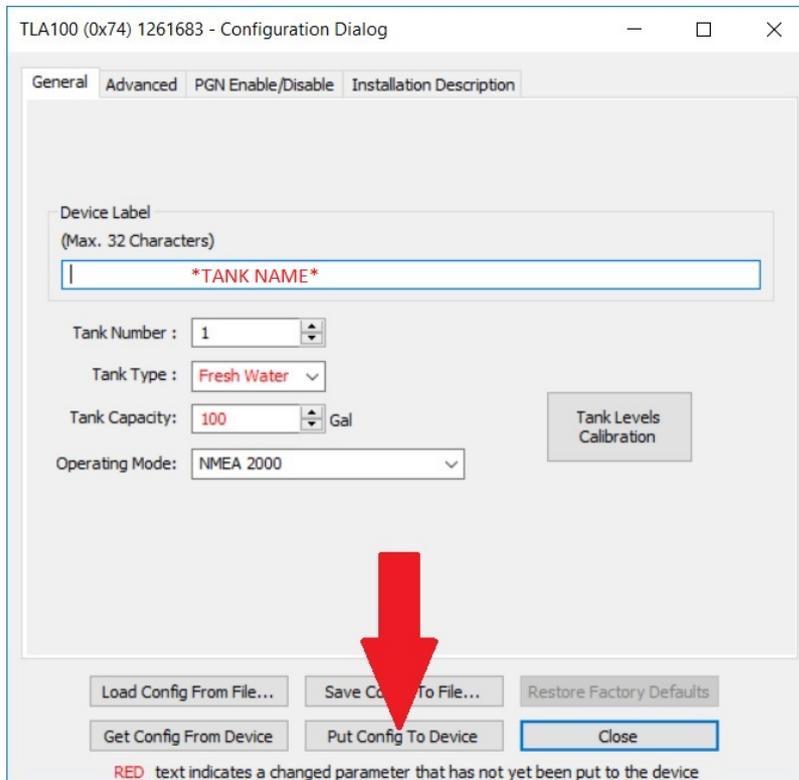


7. Input the Tank Name, Number (0-15), Tank Type, Capacity, and Operating Mode
 1. NMEA 2000 – only sending unit and TLA100
 2. N2K and Analog Gauge – when in-line with the analog gauge’s resistances
 - Input the resistive value ranges (Refer to Section 3.3.1 of the TLA100 User’s Manual)
 3. N2K and Analog Gauge (Type 2) - TLA is used together with an analog current-source gauge
 - Input the Gauge Current in mA (Refer to Section 3.3.2 of the TLA100 User’s Manual)

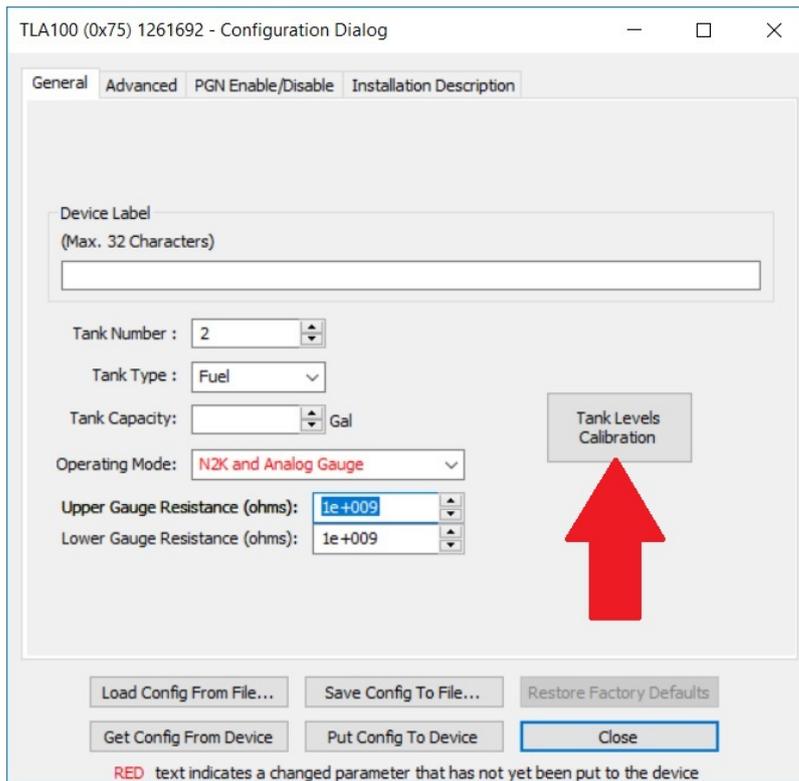
8. Navigate to the tab labeled **Advanced**, set the Device Instance respectively starting at **0**.



9. Once entries are complete, select **Put Config to Device**



10. Navigate to the **Tank Level Calibration** table



11. Tank Manual table and Step fill is a routine that requires several pre-requisites Tank shape and estimated total tank capacity.

Refer to N2KAnalyzer User's Manual section 4.7.24.1.6 for Manual table or 4.7.24.1.7 for Step fill configuration.

The configuration menu(s) for a Manual table shown through a configuration process.

Uniform shaped tanks
uniform shaped tanks

Non-

Select sending unit parameters
Calibration Procedure

Step Fill

TLA100 (0x75) 1261692 - Tank Calibration

Manual Table Step Fill

Current Tank Calibration

	Resistance	Level (%)
1	240	0.0
2	33	100.0
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

Meas. Resistance (Ohms):

179

Number of Table Entries: 2

Set to American Standard (240-33 ohm)

Set to European Standard (10-180 ohm)

Load Config From File... Save Config To File...

Get Config From Device Put Config To Device

Close

RED text indicates a changed parameter that has not yet been put to the device

TLA100 (0x75) 1261692 - Tank Calibration

Manual Table Step Fill

Current Tank Calibration

Set to American Standard (240-33 ohm)

Set to European Standard (10-180 ohm)

Meas. Resistance (Ohms):

178

	Resistance	Level (%)
1	240	0.0
2	219	10
3	198	20
4	177	30
5	156	40
6	135	50
7	114	60
8	93	70
9	72	80
10	51	90
11	33	100
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

Number of Table Entries: 11

Load Config From File... Save Config To File...

Get Config From Device Put Config To Device

Close

RED text indicates a changed parameter that has not yet been put to the device

12. Once entries are complete, select **Put Config to Device**

TLA100 (0x75) 1261692 - Tank Calibration

Manual Table Step Fill

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13	-	-
14	-	-
15	-	-
16	-	-

Number of Table Entries: 11

Load Config From File... Save Config To File...

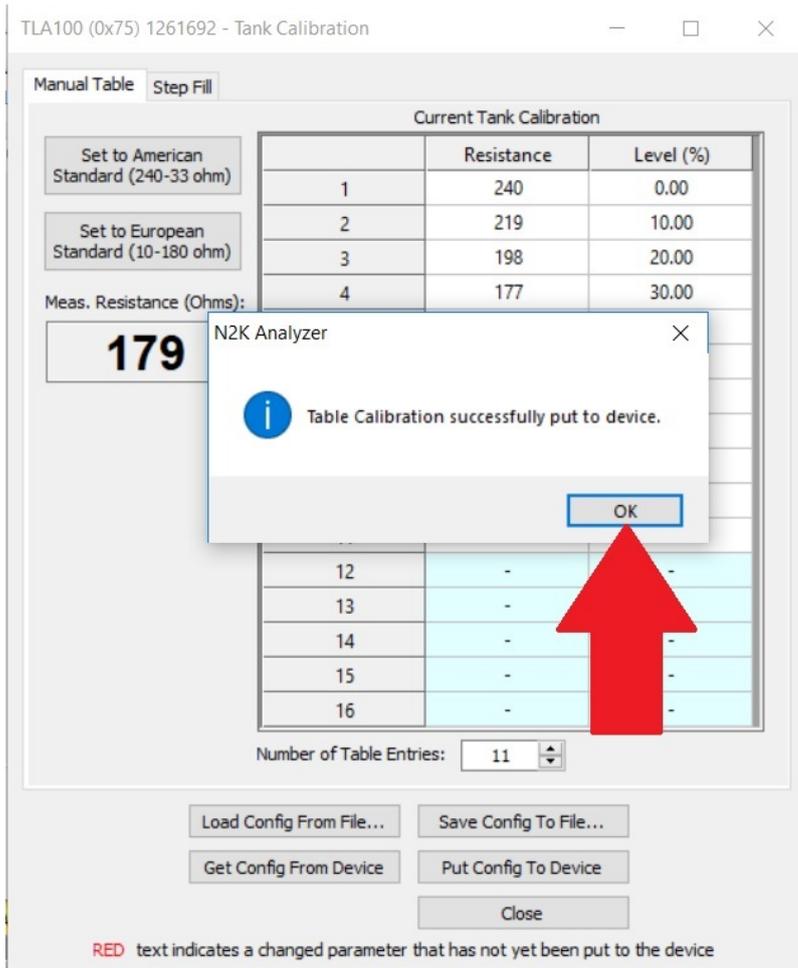
Get Config From Device Put Config To Device

Close

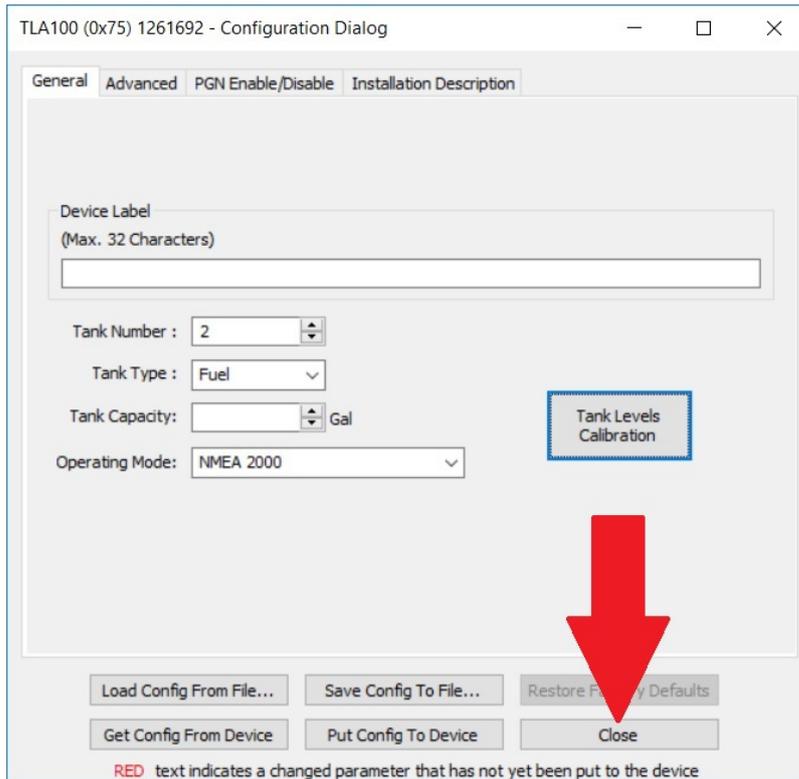
RED text indicates a changed parameter that has not yet been put to the device



13. Confirm putting table calibration to the TLA100.



14. Process complete! Close all TLA100 dialog boxes.



Online URL:

<https://www.maretron.com/wp-content/phpkbv96/article.php?id=696>