What configuration options are available for the TMP100?

Use the N2KAnalyzer software program or a Maretron DSM150, or Maretron DSM250 to perform Maretron Device level configuration. This article will show methods for configuring the TMP100 Using Maretron's N2KAnalyzer software tool.

Pre-requisits:

- PC with N2KAnalyzer software installed.
- Maretron Gateway USB100 or IPG100
- Maretron TMP100(Temperature Monitor)

Connect the TMP100 to your Maretron N2K Network, connect the Maretron Gateway to the same N2K network and start the N2KAnalyzer Software Program.
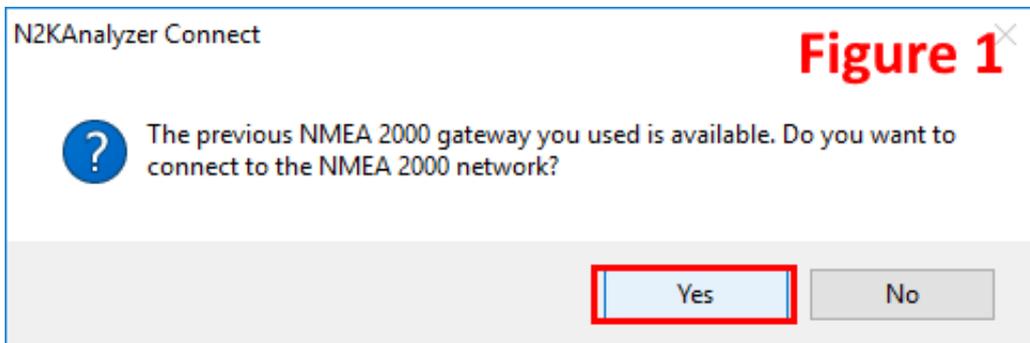
You will be prompted to use the detected gateway(auto connect method), at this time press *Yes* as shown in Figure 1. If you were not able to auto connect or you wish to manually connect, then continue reading, otherwise skip down below Figure 1a.

Figure 1a "Manual Connect" method: In some cases you may wish to manually connect by way of choosing from multiple gateways and the one that should be used for N2KANalyzer. Within N2KAnalyzer Go to *Setup-->Configure Gateway*, at this time select a gateway port, press *OK*. Next, click on *File--> "Connect to NMEA2000 Network"* as shown in Figure 1a. Moments later you should see a connection is made populating device list of rows and columns.
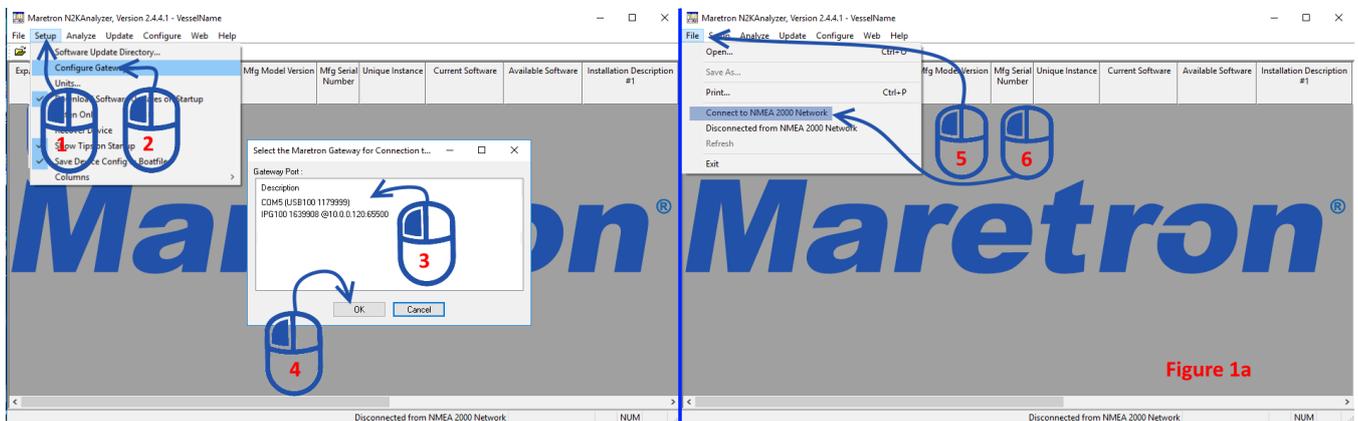

Next, select the Device you would like to configure(left Click) TMP100 shown in Figure 2. *Right-Click*

that same device row, left click to select *"Configure Device"* Figure 3, to show the configuration dialog Figure 4 .
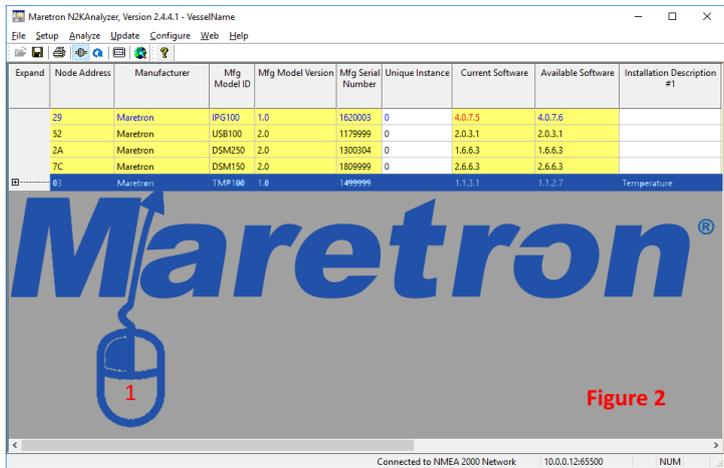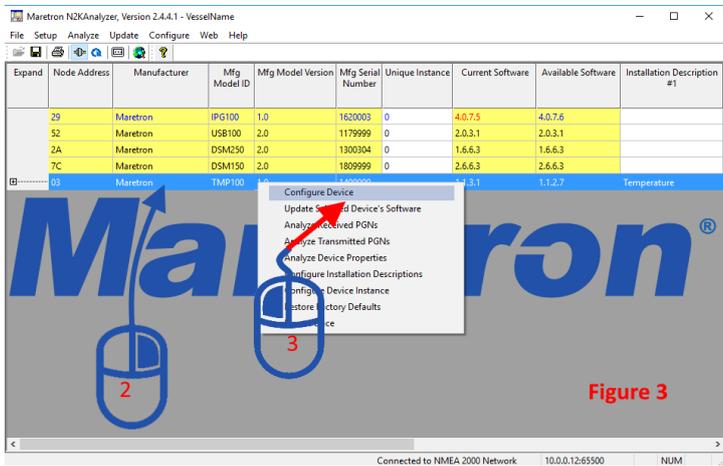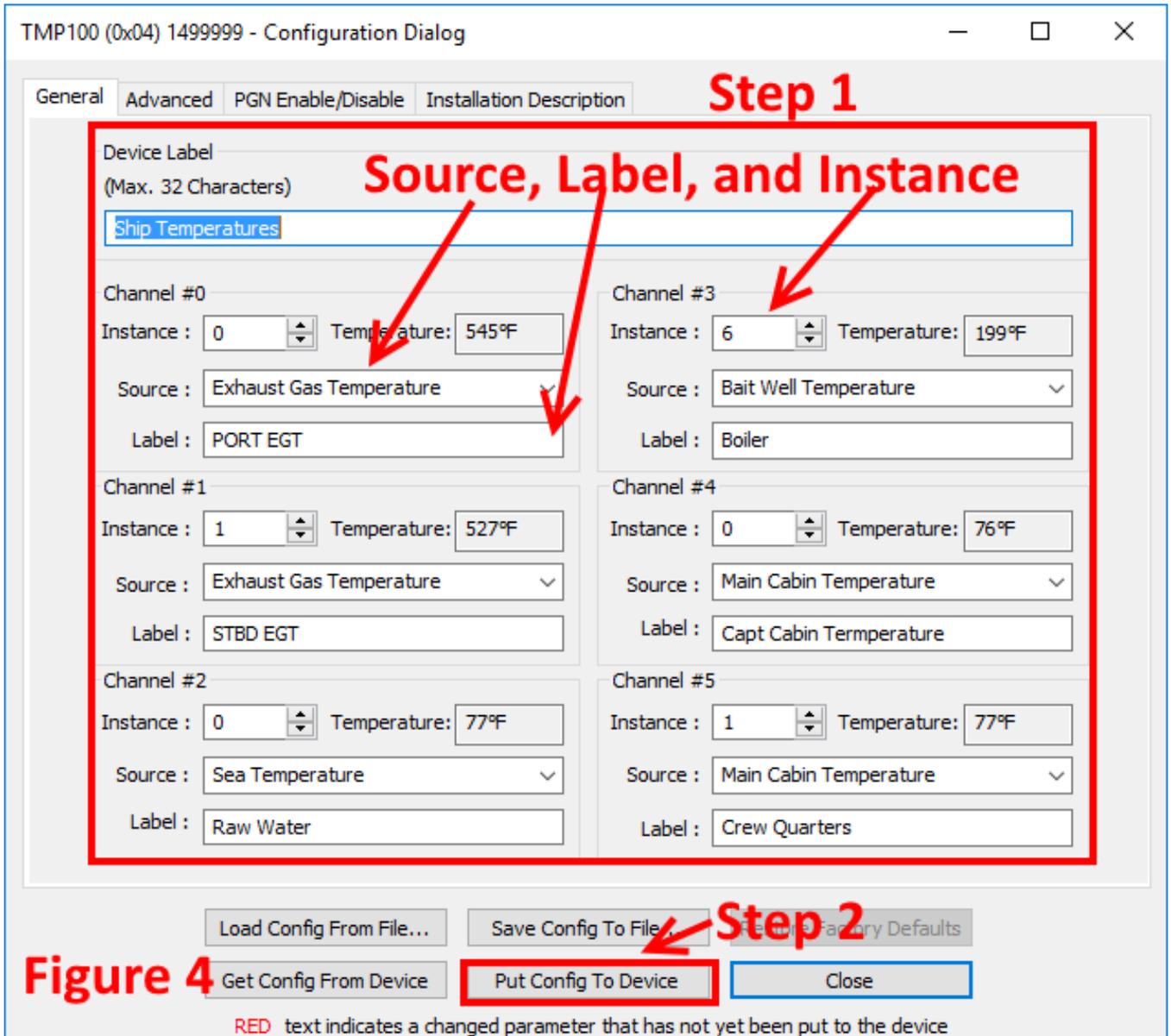

Figure 2

Figure 3

Observe Figure 4, within **Step 1:** Configure the Device Label, channel instance, channel source, and channel label. In Figure 4; *Channel #0 is set as Exhaust Gas Temperature*, instance #0 followed by specific channel label to help identify the instance easily when displaying the parameter later on. By configuring each channel's source, instance and label with attributes that best describes the application this helps users display and alarm data properly. Note: In special cases that a provided *Source* option does not best describe the application within the selection drop down list, a "User Defined###" source is available. **Step 2:** Finally, press *"Put Config to Device"* once all your edits have been completed. One thing you should notice is a realtime measurement for each channel (shown in Step 1). One can use the Real-time measurement to validate the sensors installation with ease.

Figure 4

TMP100 (0x04) 1499999 - Configuration Dialog

General | Advanced | PGN Enable/Disable | Installation Description

Step 1

Source, Label, and Instance

Device Label
(Max. 32 Characters)

Ship Temperatures

Channel #0
Instance : 0   Temperature : 545°F
Source : Exhaust Gas Temperature
Label : PORT EGT

Channel #1
Instance : 1   Temperature : 527°F
Source : Exhaust Gas Temperature
Label : STBD EGT

Channel #2
Instance : 0   Temperature : 77°F
Source : Sea Temperature
Label : Raw Water

Channel #3
Instance : 6   Temperature : 199°F
Source : Bait Well Temperature
Label : Boiler

Channel #4
Instance : 0   Temperature : 76°F
Source : Main Cabin Temperature
Label : Capt Cabin Termperature

Channel #5
Instance : 1   Temperature : 77°F
Source : Main Cabin Temperature
Label : Crew Quarters

Load Config From File...   Save Config To File...   Restore Factory Defaults

Step 2

Get Config From Device   Put Config To Device   Close

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

 You can validate the configuration by way of using the Virtual DSM250. Simply click on the DSM250 icon located within the shortcut palette under the menu items of N2KAnalyzer shown in Figure 5, Step 1. Visit the following link https://www.maretron.com/support/knowledgebase/phpkbv7/article.php?id=362 to learn more about displaying temperatures on a DSM250.
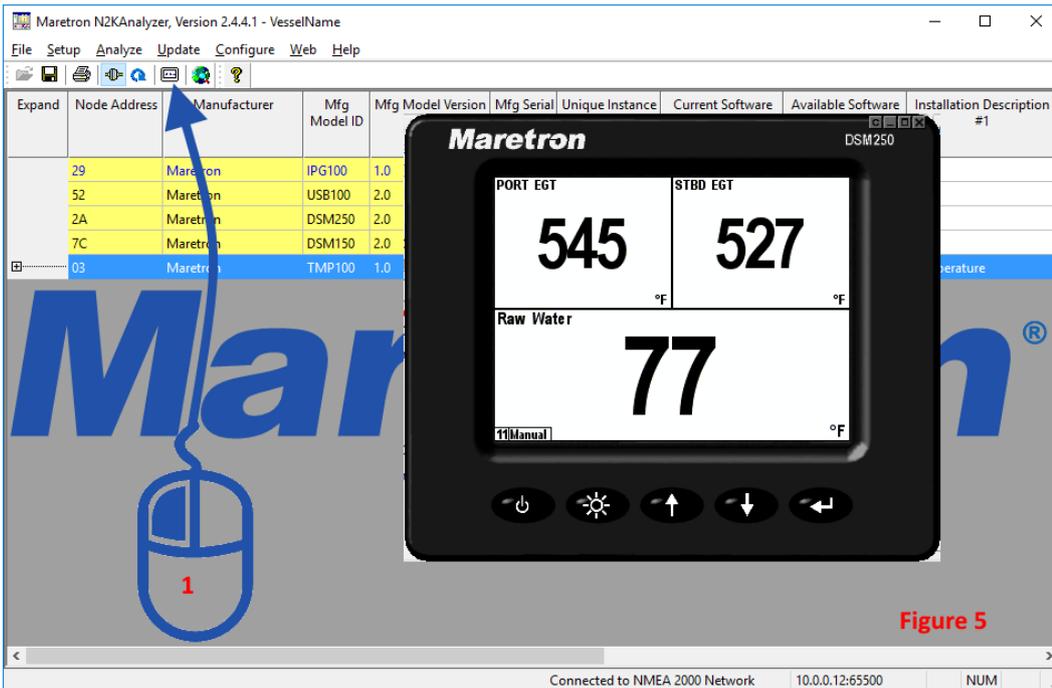
Figure 5

Figure 6 shows an example of a configured DSM250 favorite screen set to a custom format: Quarter, Quarter, Half in order to show Channels 0,1,2 of the TMP100 specifically the Port and Starboard Exhaust Gas Temperatures including Raw Water Temperature at the bottom. In most cases for a custom solutions the virtual DSM250 can offer the flexibility to show individual parameters allowing the user to save the display configuration for the vessel.
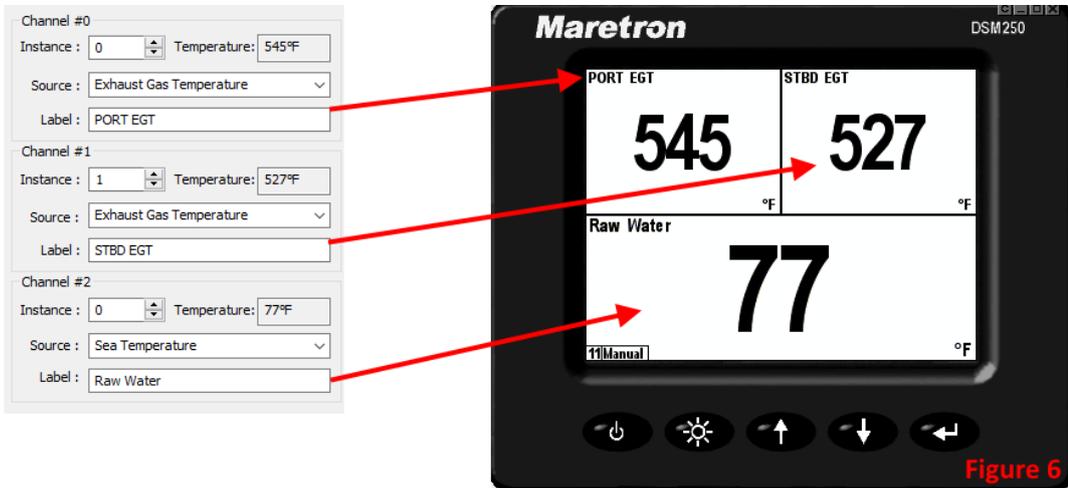

Figure 6

Online URL: https://www.maretron.com/support/knowledgebase/phpkbv7/article.php?id=647