

Installation Instructions

Maretron TP-EGT-1 - Exhaust Gas Temperature Probe for the TMP100

Instructions

Please follow these instructions to connect the TP-EGT-1 exhaust gas temperature probe to the NMEA 2000® network via a Maretron TMP100 Temperature Module. The wiring diagram appears in Figure 1 below.

Please note that the TP-EGT-1 may be connected only to channels #0 & #1. It may not be connected to channels #2 - #5.

1. The TP-EGT-1 is packaged with a compression fitting for mounting the temperature probe to an exhaust manifold. Drill and tap a 1/8" NPT (27 threads per inch) hole in the manifold where you want the probe to enter the manifold. Alternatively, you may drill a 13/64" hole in the manifold and weld on the supplied adapter fitting, which has a 1/8" NPT hole. An existing hole on an exhaust manifold is somewhat common. It may or may not be threaded 1/8" NPT. If it is not, you will need to either obtain a bushing to adapt the existing hole in the manifold to 1/8" NPT or use a compression fitting that matches the existing hole in the exhaust manifold.
2. Thread compression fitting into the threaded hole.
3. Insert the EGT probe into the compression fitting and tighten the collar of the compression fitting to achieve a snug, leak-proof fit.
4. The TP-EGT-1 cable contains one yellow and one red wire.
Connect the red wire to the appropriate Tx- terminal on the TMP100 as shown in Figure 1 below.
Connect the yellow wire to the appropriate Tx+ terminal on the TMP100 as shown in Figure 1 below.
5. Use a Maretron DSM Series display or a PC running N2KAnalyzer software paired with an appropriate NMEA 2000® gateway to properly configure the TMP100 and channel for use with the TP-EGT-1 temperature probe to apply the following characteristics such as Label, Source Type, and Instance.
 - a. **Channel #x Label** is a text string that allows you to identify the particular temperature that is being measured by this probe. For example, if you have two engines, you may wish to label one of them "Port EGT" and the other "Starboard EGT".
 - b. **Channel #x Source** applies to the type of temperature you are measuring; many are pre-defined.
 - c. **Channel #x Instance** applies to a number that is unique across the network for the source you have selected. In other words, if you are measuring Exhaust Gas Temperature, there may be only one channel on the network that measures Exhaust Gas Temperature that has an instance number of 0. Number further Exhaust Gas Temperature channels as instance #1, #2, and so on.
6. Using a Maretron DSM Series display, N2KView, or an MConnect to show the temperature with the source and instance you have selected and verify that you see a valid temperature on the display.

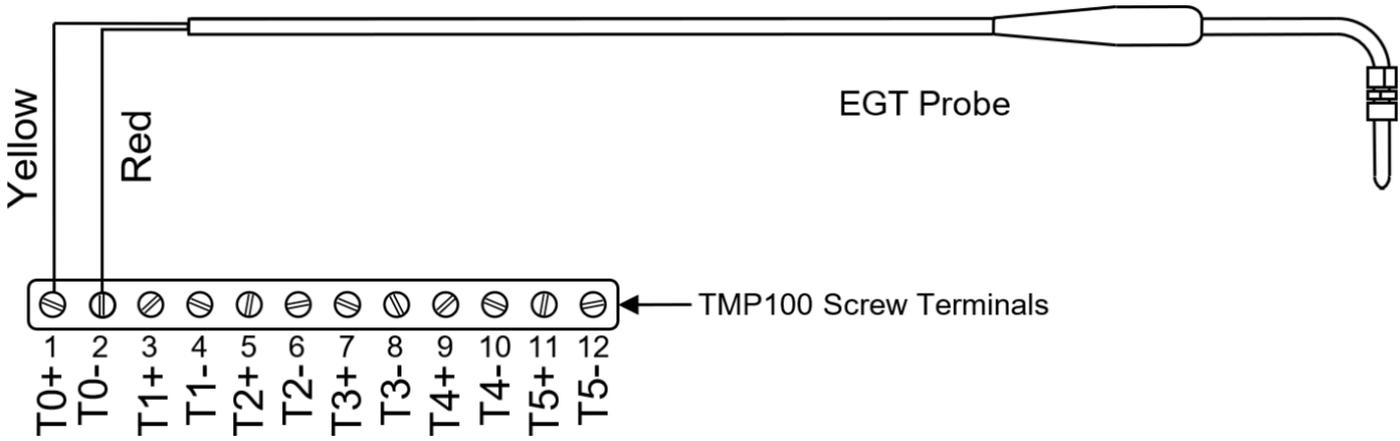


Figure 1 – Wiring Diagram

(continued on reverse)

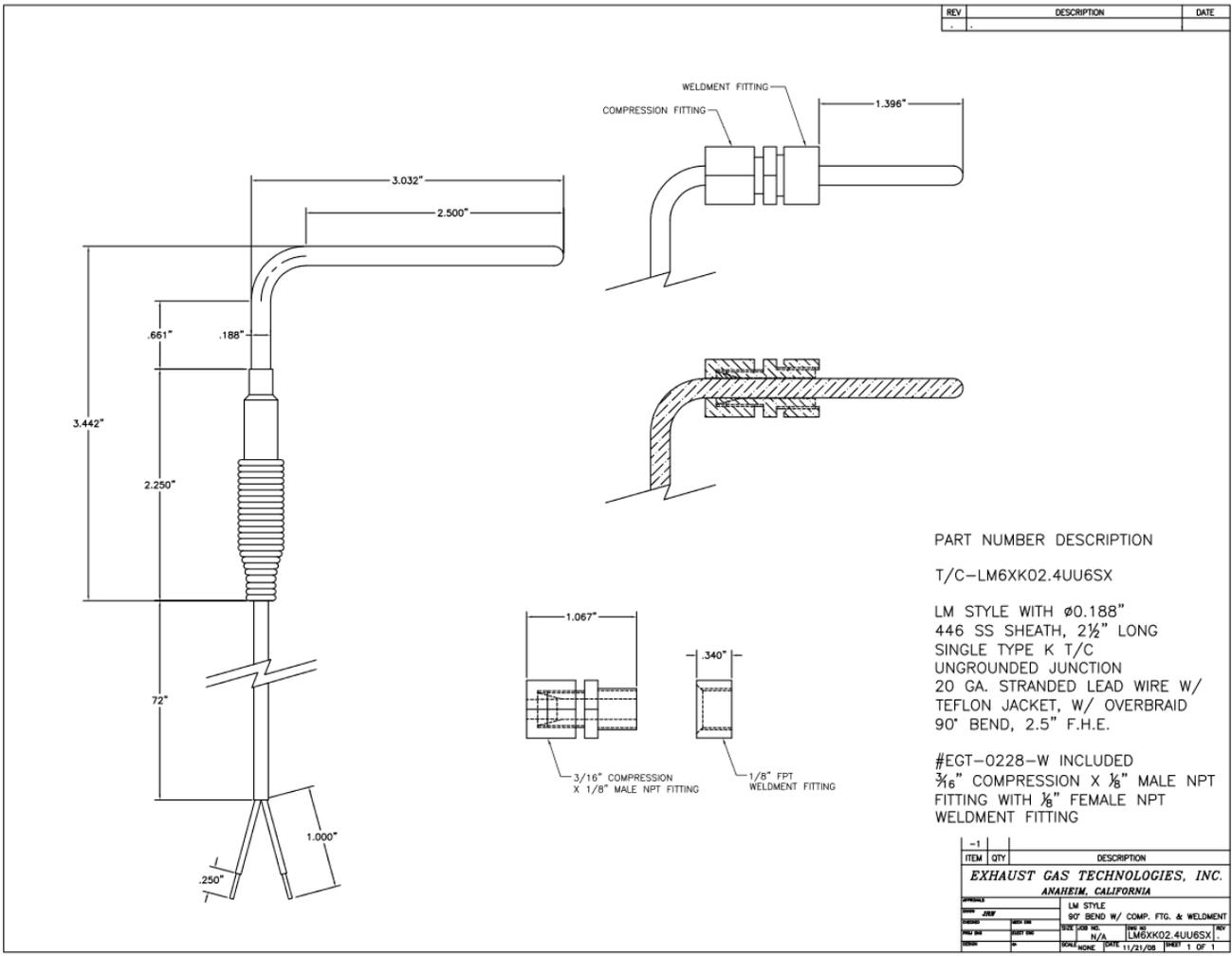


Figure 2 – Sensor Dimensions

For installation support, please contact:



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