XBus Four-Channel EGT Sensor Module

Part Number XMD-EGT-1357

Module Configuration Setup:

Serial Number: **959-962**

Cylinder Layout: 1-3-5-7
Sensor Type: Deg F

Averaging: 0 ms

Sensor Scaling:

Point A: 0.0000 equals 0.0000
Point B: 1.0000 equals 1.0000
Unit: DegF

Graph Scaling:

Min Value: 0
Max Value: 2000
Decimals: 0 significant digits

Sensor Installation:

The four-channel EGT module is a special XBus module designed to measure the exhaust gas temperature on four individual cylinders. The module can be purchased in four different configurations corresponding to the different cylinder numbering systems utilized by the various manufacturers.

Module Installation:

Install the thermocouples into your exhaust header system and mount the 4-channel EGT module to your vehicle. The XBus EGT module can be connected at any location in the XBus network in your vehicle via an XBus T-cable. Be sure to select a location where the module can be mounted safely. Avoid mounting near high voltage ignition wires. The module must be mounted in a location where the temperature does not exceed 185 degrees, or the module can be damaged. Route and secure the module's T-cable from the module and connect it to the XBus network.

Module Setup:

The module has been configured as described in the setup box located at the top of this page. No additional setup is required to begin using the module. However, before using this module you must ensure that no other modules in your system have been assigned to the same XBus ID as this module. If you already have a module in your system assigned to this ID you will either need to change the ID as described on the back of this setup sheet or exchange this module for one programmed with an appropriate ID. If you are using the Caliper software to configure your system or to download data, you will need to update your configuration file before you are able to access the information from this module. Please refer to the setup instructions on the next page.

Software Setup and Module Configuration

Before you can use this module with your data logger, you will need to update the configuration file in your PC. To perform this step, you will need to connect the data logger to your PC using the USB cable that came with the data logger (see your unit's instruction manual for details). Next, open the Caliper software. If you selected your car configuration file as the default configuration file, the file will be opened and the file tab for the car configuration file will be selected. If it is not, open your configuration file by selecting the Open Configuration… menu item located in the File menu.

Next, apply power to your system, wait a couple of second and select **Read from device…**. Caliper will read the system configuration and will display a new channel in the list of channels in the **Channel Selection** pane. For example, the channels should appear as "Cyl #1, Cyl #3, etc". However, if the channel is listed as something other than, you may have a conflict with another module on the system. You must correct this issue by changing the XBus ID of the module to something that is not in use elsewhere on the system, such as "Cyl #2".

Editing the Module Setup:
To edit the configuration of this module, position the mouse cursor over the channel name and right-click on it. Then, click on the '**Show Configuration**' option that appears. The Channel Parameters dialog will be displayed with three tabs; Basic, Advanced and Help. Reference the information in the Help tab for instructions on modifying the setup of the module.

Programming the Module:
Every device on your XBus system must be assigned a unique Can ID. This ID identifies the module on the network, and what information it is transmitting. Clicking on the currently selected Can ID will provide a list of sensor groups. Each group contains a list of parameters associated with that grouping. To open a group, click on the arrow to the right of the group name. The group will expand, revealing a list of the individual channels, along with their related Can IDs. Select the option that most closely matches your application by clicking on it. The software will then load the appropriate default values including the name for the selection. If you wish to modify the name or any other parameters, you may do so after selecting the Can ID.

Sending the Configuration to the module:
When you have finished editing the configuration on your PC, you will need to send the information to the module. Be sure the USB cable is connected to your data logger and the unit is powered on. To send the updated information, click on the **Write channel to device** button in the lower right corner. If successful, a small checkmark will appear to the left of the button along with the message '**Configuration written to device**'. If you receive an error message, turn the logger off and then back on and repeat the process of writing the channel. If problems persist, check the troubleshooting section in your manual and then contact Performance Data Systems.

Save your configuration file and update the Module Configuration Setup Box on the front of this instruction sheet with the new setup configuration.