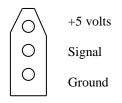
V_Net Throttle Position Sensor Module

Part Number: 230-VM-TPS

Module C	onfiguration Setup:	
Module Type: SC_ANALOG	Serial Number:	
Channel Name: Throttle Pos V_Net ID: x30B	Channel Options:	
Sensor Type: TPS(Potentiometer)	V_Net Update Rate: Logger Sample Rate:	
Sensor Scaling:	Module Record Rate:	25 /second
A0 will become0 B5 will become100		
Graph Scaling:		
Min Value0 Max Value _100 Digits Before _3 Digits After _2		

Sensor Installation:

Due to the wide variety of throttle position sensor mounting requirements Racepak does not provide throttle position sensors. We recommend you visit your local auto parts store and look over there their catalogs and inventory to pick out a TPS that will best fit you mounting requirements. The overall resistance of the TPS is not critical. Most sensor will have 5k Ohm to 50k Ohm output when measured with an Ohm meter. The pin out of the wire connector provided to interface with the TPS is as follows:



Incorrectly wiring the TPS should not cause any damage, however, if you are not sure how to connect the module to your TPS you may want to send us the sensor to properly installed the connector.

Module Installation:

The V_Net connector module can be inserted at any location in the V_Net cable in your vehicle. Select locations where the connector module can be mounted safely. Avoid mounting near heat sources and high voltage ignition wires. The connector module must be mounted in a location the temperature does not exceed 185 degrees or the module will be damaged.

Route and secure the sensor cable from the module and connect the TPS. Check the throttle movement carefully to ensure nothing can interfere with the throttle return.

Module Setup:

This module has been factory configured to read and display the 0-5 volt signal from the TPS. In a stand-alone V_Net system you must insure that no other modules in your system have been assigned to the same V_Net 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 RacePak DataLink program to configure your V_Net system or to upload data from the system using a V50 Record/Playback module or a V300 or V500 data logger you will need to update your car configuration

file before you will be able to access the information from this module. Please refer to the setup instructions on the back of this installation sheet.

Software Setup and Module Configuration

Before you can use this module as an upgrade to an existing V50 Module, V300 or V500 Data Logger you will need to update the Car Configuration File in your PC. To perform this step you will need to connect the V50 module or data logger to your PC using the units serial interface cable (See your units instruction manual for details). Next start the RacePak DataLink program. If you selected the 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 car configuration file by selecting the **Open Car Configuration** menu item located in the **Files** main menu selection. Next apply power to your the board system, wait 10 seconds and select the **Read VNET Config** menu item located in the **Edit** main menu selection. The DataLink program will read in the configuration of your system. If everything works properly a new channel button, "Throttle Pos", will be added to the configuration file.

However, if the new button is captioned as the module serial number (example: SN_12000), you have two modules in your system programmed using the same V_Net ID "Throttle Pos". You must change the V_Net ID on one of the modules to something else like "WOT". If you cannot find an appropriate V_Net ID in the list to match what the module is measuring you can use one of the User Custom ID's found under the V_Net ID list.

To edit the setup parameters on this sensor module, position the mouse cursor over the channel button and click the right mouse button. The VNET Input Channel Parameters dialog box will be displayed. A Portion of this dialog box is show below.

Locate the box labeled **Unit Serial** #. Make sure the serial number is the same as the serial number of the module as shown in the module configuration box on the opposite side of this installation work sheet. If it is not, you are not editing the correct channel/sensor module. Check the other channel buttons to locate the correct sensor module.

Locate the text box labeled **Single Channel Analog Setup Instructions**. This text box provides online instructions for modifying the setup of this module. Read the instructions and modify the setup as desired. (Please note

the scroll bars located on the left- hand portion of the text box are used to scroll through the instructions).

When you have finished editing the configuration on your PC, you will need to send the information to the sensor module. Be sure the serial interface cable is connected to your V50 unit or data logger and power is applied to the system. To send the information position the mouse cursor over the **Send Configuration** button and click the left mouse button. The progress box as shown to the left will be displayed.

When finished sending the message "**Device Programmed Successfully**" should be displayed at the bottom of the progress box. If you receive an error message, turn power to the system off and then back on and repeat the send configuration process. If problems persist, check the troubleshooting section in your manual and then contact RacePak.

Update the Module Configuration Setup Box on the front of this worksheet with the new setup configuration.

IMPORTANT:

Save this Installation Worksheet in your System Manual in Appendix V. This worksheet is part of your system documentation. You may need this worksheet when modifying or trouble shooting your system.

_CHART_MIN: 00052: 0034 00 00 81 00			
_CHART_MAX: 00053: 0035 30 75 fe 00			
COPY_TUT_COMMAND: 16386: 4002 00 00 00 00			
REBOOT_COMMAND: 16450: 4042 00 00 00 00			_
==== DEVICES PROGRAMMED SUCC	ESSFULLY ====		•
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	le Pos	турс.	SC_ANALOG	
Unit Serial #:	10471	Vnet ID:	Throttle Position x30B	•
Input Number:	N/A	Sensor:	Voltage	
				-
to your V_Net connect a sing and or acceler information fro	System. Single ch gle sensor such as ation sensors to yo	channel analog mod annel analog moduli a water temperature our system. Once co allable for use by the cording, or control.	es allow you to , brake pressure nnected the	

SEND Configuration