2 Bar Map Sensor Kit Instructions

Part # Sens004

These 2 bar MAP (manifold absolute pressure) sensors measure air pressure up to 14.8 psig. The kit contains the sensor and appropriate weatherpack mating connector and pigtail. Connect the red wire (pin C) to +5v, the black (pin A) to ground, and white (pin B : output) to one of the Interceptor scan gauge's analog inputs or other data device. The 5v excitation can be obtained from our 5v sensor power supply (part number Sens010), or the 5v wire going to other sensors such as the stock MAP, throttle position, or at the ECM/PCM. You can splice into the ground wire at the same sensor where 5v was obtained or using chassis ground.

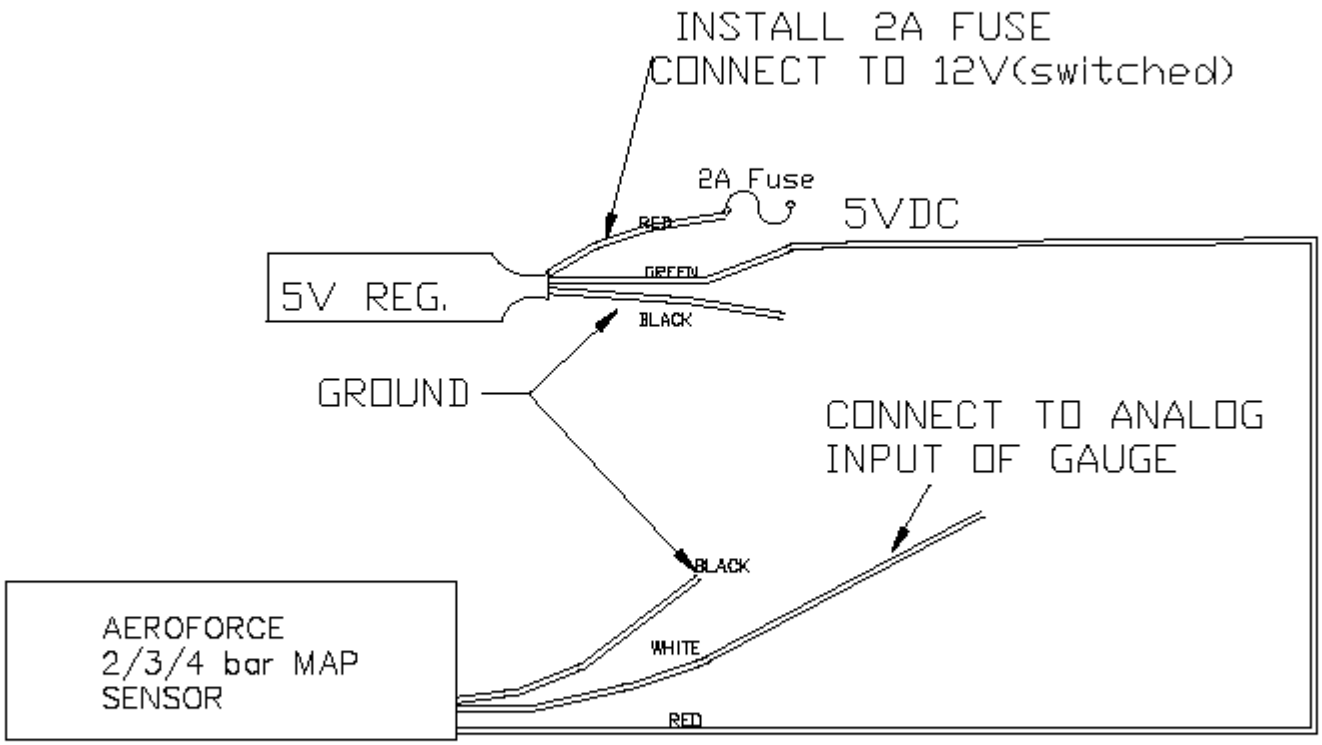
The output of the sensor ranges from 0 - 4.9v at full scale. To configure the Interceptor, Analogic, or other device to read pressure in psi (as a traditional boost gauge would), enter 5.8 for slope, and –13.2 for the intercept. Refer to the Interceptor or Analogic user manual for instructions on performing this operation in the "configuring analog inputs" section. Note this important point. The above equation assumes that you are at sea level or close to it. For best accuracy, check the value displayed on the gauge with the ignition on, engine off. At this condition the gauge should be reading "0" for MAP pressure. If it's off by more than you are comfortable with, perhaps 0.3 psi or more, you can **adjust the intercept** value to correct for this offset. For example, if you see –0.4 psi with the engine off, add 0.4 (-13.2 + 0.4 = -12.8) to correct the reading. The higher your altitude, the smaller in absolute terms the intercept will be. In Denver Colorado for example you may need to reduce it to –12.0 or more. This action will correct the MAP reading over its entire range and can also be used to cancel out an offset due to grounding issues. The same process can be used to read pressure in Bar, kPa, etc.

Warranty

This product is Aeroforce Technology warrants this product and its accessories against defects in material and workmanship for a period of 90 days from the date of purchase.

Aeroforce Technology Inc.

CHANGE HISTORY			
REV	DESCRIPTION	DATE	APP'D



WIRE	CONNECTION
RED	5VDC
BLACK	GROUND
WHITE	SIGNAL

AEROFORCE TECHNOLOGY INCORPORATED

DRAWN BY PJH	PROJECT AEROFORCE MAP SENSOR
CHK'D BY MHH	TITLE WIRING DIAGRAM FOR AEROFORCE MAP SENSOR
DATE 04/06/14	SCALE NONE
	SHEET 01 of 1