

VEI Systems Installation Instructions

SEN-P101B, P101C – 100 PSI Oil pressure sensor

SEN-F151B, F151C – 150 PSI Oil/Fuel pressure sensor

SEN-F2K5 – 2500 PSI Oil/Fuel/Nitrous pressure sensor

Please read these instructions completely before beginning installation to ensure that you have the tools and skills necessary for installation and operation of this instrument. If you are not sure that you can perform the installation safely, then consult a qualified installer. Further instructions available at www.VEISystems.com/technical.html.

FEATURES

This 5V-powered active sensor replaces any single-wire sensors used previously. Being active (powered) it is not susceptible to weak/improper grounding as the 1-wire pressure sensors were. 5V power is supplied by the gauge.

MOUNTING

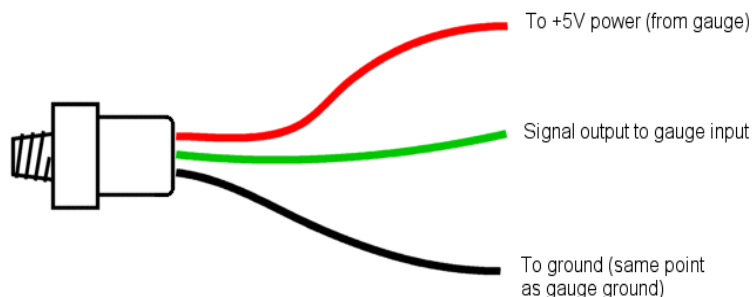
The SEN-P101B and SEN-F151 sensors have 1/8"-27 male NPT threads. The SEN-F2K5 sensor has 1/4-18 male NPT threads. Mount the sender onto the oil or fuel system port in a location that is not subject to excessive heat, such as near exhaust headers. Remote-mount hoses or extensions may be used to avoid high-heat locations or for better clearance, but braided lines are preferred and ensure that it's rated for the expected pressure.

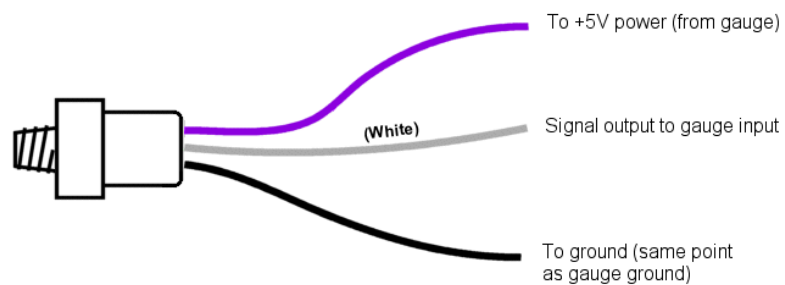
For fuel pressure you would generally need to connect to the fuel-rail near the injectors. In most cases, there will be a fuel-pressure test-port at that point. You can also use the test port with an appropriate adapter. Avoid using teflon tape or compound as this may eventually break off and get into the fuel stream, causing blockage in the fuel lines. This can be catastrophic to the engine. If you experience leaks, try tape only on the back half of the threads on the sender. The engine must be well grounded to the chassis & battery.

WIRING

Depending on which sensor version you have, the colors may vary. Follow the appropriate version as shown below. The wires should be connected as below using crimp-on butt-splice connectors, or soldered and sealed with heat-shrink tubing. Before connecting any wires, you should either disconnect the battery power, or carefully connect the wires in the order shown. If not, you may damage the sensor.

- BLACK -- connect to ground, at the same point that the gauge is grounded.
- RED or PURPLE – connect this to the purple (5V out) wire on the gauge. DO NOT connect this to any other power source as it will damage the sensor.
- GREEN or WHITE – connect to the appropriate signal input wire on the gauge (usually white or grey).





WARRANTY & LIABILITY

Neither VEI Systems, nor its dealers or agents shall be liable in any way, for any damage, loss, injury or other claims, resulting from the installation or use of this product. By purchasing or installing this product, you assume all liability of any kind connected with the use and/or application of this product. If you are unsure that you can safely install and use this product, consult a qualified installer or mechanic. The warranty on this product covers only the product itself for a period of 1 year from the date of purchase, and it will be at our discretion to repair or replace the affected parts. No user serviceable parts inside. Warranty void if product enclosure opened.