

# VEI Systems Installation Instructions

## V1-FPM-Mx – Fuel Pressure Monitor

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](http://www.VEISystems.com/technical.html).

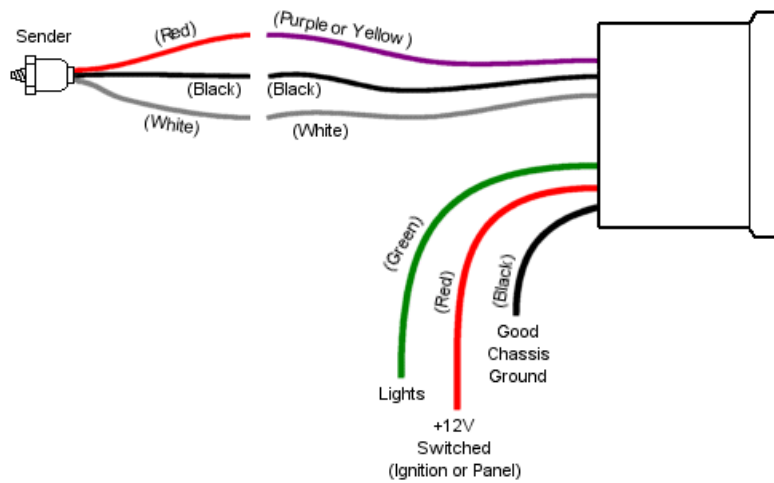
### MOUNTING

Install the unit through the front of the mounting hole in the dash pod or panel. If you are making a custom dash panel, you will need to drill a 2-1/16" hole. Slide the clamp onto the 2 studs on the back of the instrument. Secure with the 2 thumb-nuts. Use a small drop of threadlocker or nail polish on the thumb-nuts to prevent them from loosening under vibration.

Use fuel-pressure sender SEN-F100. Mount the sender on the engine block in an appropriate location. Generally, you would 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

The wires should be connected as below using crimp-on butt 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 instrument. Use an existing fuse in the fuse panel, or an external fuse to supply power to the instrument. The V1 series instruments use an average of 105mA of current, and a maximum of about 175mA, so ensure the fuse is sized appropriately. For a typical 6- or 7-gauge setup, a single 5 Amp fuse is good.



- BLACK (on gauge) -- connect to a solid chassis ground under the dashboard, or directly to the battery. You may need to expose the metal connection point under the dash by scraping or lightly sanding it. A ring terminal and a screw should work well in most cases.
- RED -- connect this to a source of **switched** +12V power. This will usually be found at or near the ignition switch, and will usually have a relay wired through the ignition switch. An alternate source of this is a switched power line from a nearby light or accessory (radio, etc). If you are unsure that the wire can supply the power required for the instrument, then use an external relay.
- GREEN -- connect this wire to the positive line (+12V) from the headlight switch. When this line receives a positive voltage, the gauge will use the "park-lights" brightness setting. Alternatively, if setting up a racing-mode display, this can be connected to a separate mode switch (12V or 0V signal).
- WHITE -- connect this wire to white wire on the fuel-pressure sender.
- PURPLE -- connect this wire to the red wire on the fuel-pressure sender.
- BLACK on sender -- connect this wire together with the black (ground) wire at the back of the gauge. Both of these wires together would then be connected to a good chassis ground.

## OPERATION

Press and hold the button for a few seconds to change the mode. Press and release quickly (tap the button) to change the setting in any mode. Modes are as follows:

MODE	DISPLAY	SETTINGS
Normal	(Pressure)	
Set bargraph scale	S . 5	Sets the bargraph scale to either 0-50 PSI or 0-100 PSI (shown as "5" or "10").
Set low-pressure alarm	L . 40	Sets the low-pressure alarm threshold from 1 to 40 PSI.
Set high-pressure alarm	H . 50	Sets the high-pressure alarm threshold from 50 to 99 PSI.
Peak mode	P . On	Sets the peak feature ON or OFF.
Brightness Regular	Br . 9	Last digit shows regular brightness level from 1 to 9.
Brightness park-lights on	BP . 1	Last digit shows brightness level with lights on from 1 to 9.

## 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.