VEI Systems Installation Instructions D1-TTC-TTC-Mx – Dual Transmission Temperature Gauge (deg-C)

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 dual-function instrument monitors transmission temperature and displays it simultaneously on two independent displays on the same gauge. Each of the two functions have upper- and lower-threshold alarms that are user configurable for the specific application vehicle.

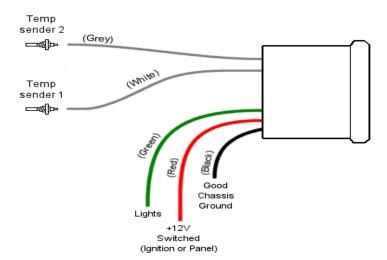
MOUNTING

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.

For transmission temperature, use temperature sender SEN-T320D. Mount the sender in an appropriate location to measure transmission fluid temperature at it's hottest point. CAUTION: teflon tape or compound may eventually break off and get into the water stream, causing blockage in the water passages and thus cause overheating, so you should avoid using it. If you experience leaks, try tape only on the back half of the threads on the sender. The transmission must be well grounded to the chassis & battery. This is usually done though grounding the engine. If using teflon tape, measure the resistance between the outer body of the temperature sender and the chassis of the vehicle to ensure good electrical contact.

WIRING

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 instrument. Use an existing fuse in the fuse panel, or an external fuse to supply power to the instrument. The D1 series instruments use approx. 130mA of current average and approx. 210mA maximum, so ensure the fuse is sized appropriately. For a typical 6- or 7-gauge setup, a single 5 Amp fuse is good.



- BLACK -- connect to a solid chassis ground under the dash, 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.
- o 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 support the power required for the instrument, then use an external relay.
- o 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 top stud on the TRANSMISSION-temperature sender.
- GREY -- connect this wire to top stud on the TRANSMISSION-temperature sender.

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	(temp)	Shows transmission temperature in upper and lower display, unless display
		channels were swapped (explained below).
Channel swap	Ch1 / Ch2	Allows you to swap the position of the upper & lower displays if required.
Set low-transmission-temp	LO / 60	Sets the low transmission-temp alarm threshold from 60-87 deg C.
alarm		
Set high-transmission-temp	HI / 93	Sets the high transmission-temp alarm threshold from 93-159 deg C.
alarm		
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. No user serviceable parts inside. Warranty void if product enclosure opened.