Ethanol % / Fuel Temperature Sensor Controller kit
Part # Sens030

The Aeroforce Sens030 Ethanol Content / Fuel Temperature Sensor Controller kit requires a GM P/N 13577429 sensor, but will also work with a GM P/N 13577379 sensor. Neither are included.

Kit Contents:

Converter/control box
Power cable
Output cable
Ethanol Sensor harness

Controller

Installation:

The physical installation of the sensor is outside the scope of these instructions and will vary from vehicle to vehicle, and should be done via an experienced or professional person. Failure to install properly could result in serious harm to vehicle or persons. The sensor fittings are 3/8" SAE quick-disconnect male on both ends. Installation of the sensor may require additional fuel hose and connectors (not included). **Once installed always check for fuel leaks!**
The control box should be mounted in the vehicle cabin, with connections made in the vehicle cabin..

Power cable:

Connect the red wire to switched 12v power. Black wire to chassis ground. Plug into the controller box

Ethanol Sensor Harness:

Connect to the sensor (not included). Connect other end to the controller box into the 3 pin connector.

Output cable:

Green: + output for ethanol %
White: Ground for ethanol %. Either white wire can be used, both are tied together.
Red: + output for fuel temperature
White: Ground for ethanol %. Either white wire can be used, both are tied together.

Be sure to connect these outputs to the gauge or data device before powering controller. Damage to controller can result from outputs touching ground by accident. Only "+" outputs are needed for our Interceptor gauge. White wires can be left unconnected, the Interceptor gets ground from the OBD2 port.

Analog Outputs	Signal level	Range
Ethanol % (Green/white wires)	0-5v	0-100%
Fuel Temperature (Red/white wires)	0-5v	-40 to 257 deg F (-40 to 125 C)

Linear conversion values:

Ethanol %: Slope = 20, Intercept = 0. % = 20*volts + 0
Fuel Temp in deg F: Slope = 59.4, Intercept = -40. Deg F = 59.4*volts - 40
Fuel Temp in Deg C: Slope = 33, Intercept = -40. Deg C = 33*volts -40

Troubleshooting: Once wiring is confirmed to be correct and output voltages are still not as expected, contact service@aeroforcetech.com. Use with gasoline and ethanol fuel mixtures. Poor fuel flow and water in fuel can cause erratic readings. **Assure no fuel leaks!**

Limited Warranty

Aeroforce Technology Inc. warrants to the consumer that this wideband kit will be free from defects in material and workmanship for a period of six (6) months from date of the original purchase. Products that fail within this 6-month warranty period will be repaired or replaced at Aeroforce's option when determined by Aeroforce that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the Aeroforce part. In no event shall this warranty exceed the original purchase price of the Aeroforce part nor shall Aeroforce be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to Aeroforce must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 6 month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. Aeroforce disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by Aeroforce. Warranty returns will only be accepted by Aeroforce when approval is given and/or accompanied by a valid Return Goods Authorization (RGA) number received from service@aeroforcetech.com. Product must be received by Aeroforce within 30 days of the date the RGA is issued.

Warranty Repairs: Contact service@aeroforcetech.com for RMA or return form.