



## 1CH ANALOG EGT MODULE 554-188A

### Overview:

The 1CH Analog EGT controller is designed for use with a K-type thermocouple using a “mini-k” connector. The accurate temperature measurement range is 32-2282F (0-1250C) with an accuracy of +/- 5 degrees F. The 1ch Analog EGT Module outputs a 0-5v and can be used with systems that have configurable 5v inputs.

### Specs:

Voltage range	6.5-24 volts
Operating Temperature range	-40–221F (-40-105C)
Update rate	60hz

### LED

The EGT module has a Green LED that indicates basic functionality of the unit

LED Status	Description
Solid ON	Device operation normal
Flashing	No Thermocouple connected or thermocouple failed

### MOUNTING

The EGT module is designed to be installed with a zip-tie or a pair of #6 or #8 screws.

### WIRING:

The harness is a “flying lead” harness with three wires exposed for power, ground, and signal.

Color	Purpose
Red	Power (6.5v-24.0v)
Black	Ground
Tan	Analog output

## ANALOG SETUP:

The Analog output scaling is accurate between 0.5 and 4.5 volts and covers the temperature range of a type K thermocouple which is 32F (0C) to 2282F (1250C). The analog output does output a full 0-5 volt range though the last .5 volts on either end is not as accurate as the rest of the curve due to the K-type probes being beyond their normal range. The full curve is 0v = -249.25F (-156.25C) and 5V = 2563.25 (1406.25C). A reference table is provided below along with a formula to calculate the temperature from a given voltage so users can input any voltage and temp combo needed into their data recorder or EFI system.

VOLTAGE	TEMP F	TEMP C
0	-249.25	-156.25
0.5	32	0
1.0	313.25	156.25
1.5	594.5	312.5
2.0	875.75	468.75
2.5	1157	625
3.0	1438.25	781.25
3.5	1719.5	937.5
4.0	2000.75	1093.75
4.5	2282	1250
5.0	2563.25	1406.25

$$\text{TEMP F} = \text{voltage} * 562.5 - 249.25$$

$$\text{TEMP C} = \text{voltage} * 312.5 - 156.25$$