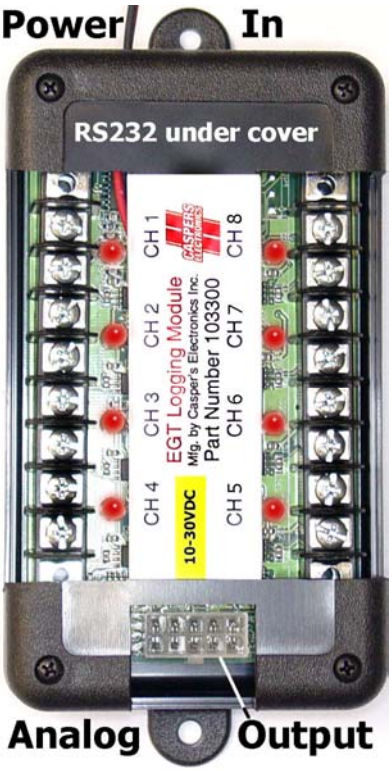
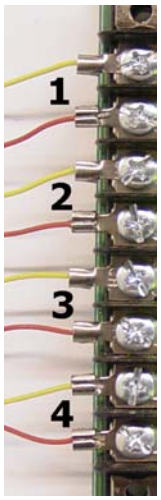
INSTALLATION INSTRUCTIONS
103300 EGT Logging Module – 8 Channel

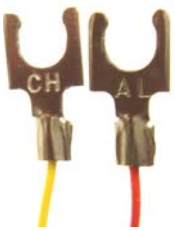
This module is designed to interface with "K" type thermocouples to log exhaust gas temperature and produce an analog output, zero to 4VDC, zero volts equates to zero deg. C, and 4 volts equates to 1000 deg. C. There are eight inputs which accommodate EGT probes, and eight analog outputs which generally interface with your ECU. Additionally, an RS-232 serial interface is provided which can allow this module to operate "stand-alone" with the use of a laptop or PC. Serial data of all eight outputs is streamed to the RS-232 port. This module is ideal for use on dynamometers when tuning an engine. Accuracy is +/- 1 degree C at full scale. Range of the module is zero deg. C to 1032 deg. C (-32 deg. F to 1890 deg. F) and is generally limited by the effective range of the K thermocouple used in the exhaust port. Sampling is factory preset at 4 samples of each input for filtering of the signal, and update rate is 250 ms between scans. Each Input sampling rate is 15 µs for each input. This very fast sampling rate provides extremely useful data for EGT tuning and "tweaking" of the fuel computer.

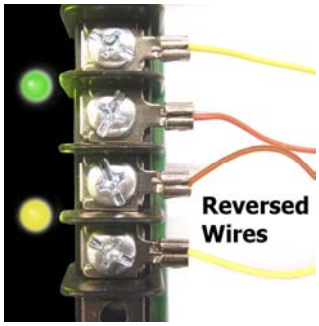
To use this module, you must provide DC power to the power connector. The input range is 10-30 VDC. Prior to logging, you should power up the module for a minimum of 5 minutes to stabilize the internal circuitry. Connect the probe leads as shown below. Once the probes are connected properly and are sensing heat, the LED's will all illuminate GREEN. Any unused inputs will illuminate RED.

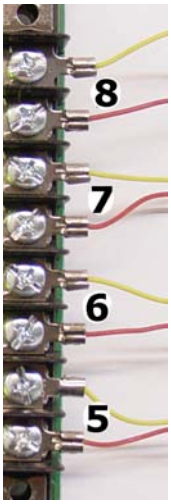




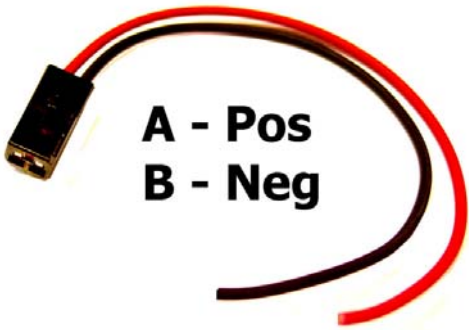
When attaching the thermocouple terminals, be sure to attach them in the order shown here. Chromel (yellow) lead on the upper, and Alumel (red) lead on the lower terminal for each channel.





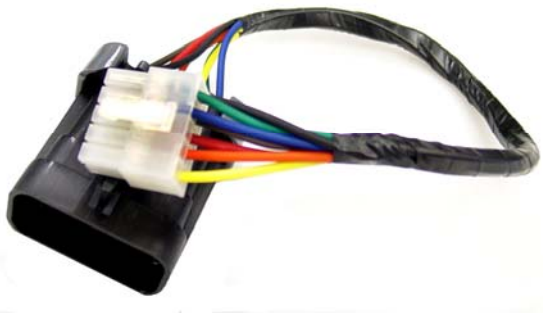


If a probe connection is reversed, the LED will light YELLOW once the probe has been heated above 120°C. If the probe wiring is correct, LED will light GREEN. If the probe is not properly connected or missing, however, the LED will light RED.



This harness attaches to switched 12V power

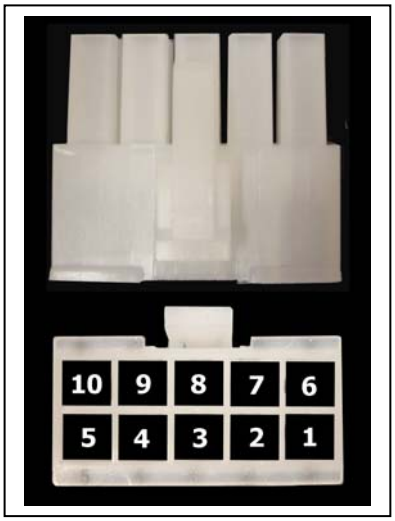
This harness is designed to "Plug and Play" to the XFI stand-alone harness



Pigtail Connections:
(10 cavity white plug –
back view of connector)

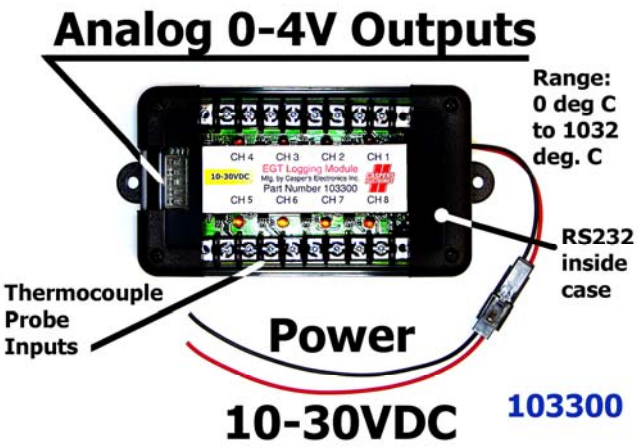
1 – Analog Ground BLACK
2 – Analog output 1 BROWN
3 – Analog output 2 RED
4 – Analog output 3 ORANGE
5 – Analog output 4 YELLOW
6 – Analog output 5 GREEN
7 – Analog output 6 BLUE
8 – Analog output 7 VIOLET
9 – Analog output 8 GRAY
10 – Analog Ground BLACK

Connector on EGT Module



AAUX Inputs to XFI Harness

Analog outputs are
programmed to deliver
0-4VDC which equates
to 0˚C (0V) to 1032˚C (4V)



Power Input:

A – Positive 10-30VDC (RED)
B – Ground (BLK)

Optional K-type Thermocouple with clamp

Optional analog "Pigtail" connector