Temperature Sensor and Converter Kit
(P/N 307037, 307038, 307071, 307072)

Thank you for choosing FAST® products. We are proud to be your manufacturer of choice. Please read this instruction sheet carefully before beginning installation, and also take a moment to review the included limited warranty information. Contact us toll free at 1.877.334.8355 or at www.fuelairspark.com under Tech Help with any questions.

Description:

The FAST Air or Fluid Temperature Sensor Converter Kit provides a simple and cost effective way to measure air or fluid temperatures using a universal 0-5V output, perfect for any data logger or engine computer. Designed around the widely available GM style intake air or fluid temperature sensor, this kit is ideal for measuring parameters such as engine inlet air temperature, pre and post intercooler/heat exchanger temperatures, brake duct temperatures, and engine coolant or oil temperatures.

Part Number 307037 Kit Contents:

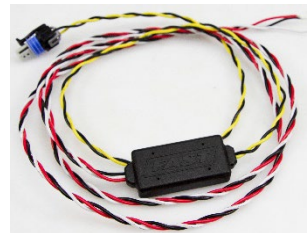1 – Air Temperature Converter Module (Yellow Wire)
1 – Air Temperature Sensor

Part Number 307038 Kit Contents:

1 – Coolant Temperature Converter Module (Green Wire)
1 – Coolant Temperature Sensor

Part Number 307071 Kit Contents:

1 – Air Temperature Converter Module (Yellow Wire)

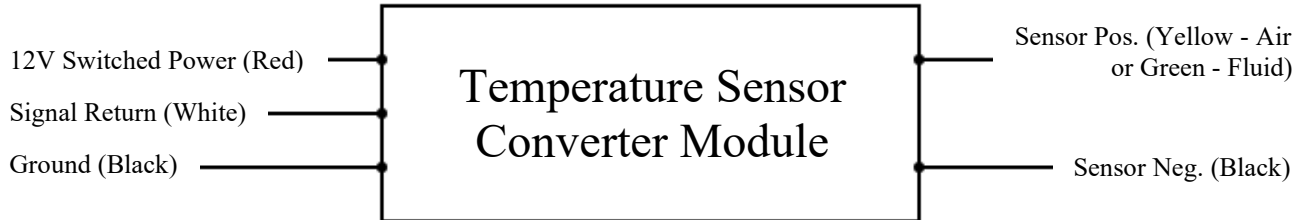

Part Number 307072 Kit Contents:

1 – Coolant Temperature Converter Module (Green Wire)

Toll Free: 1.877.334.8355
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Part #FAST4-306
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Installation:

1. Install temperature sensor in desired location (3/8" NPT). Check for leaks.
2. Disconnect negative battery terminal from battery.
3. Splice Red wire into a switched +12v power source.
4. Splice Black wire into sensor ground source.
5. Splice White wire into desired 0-5V analog input at ECU, Data Logger, etc.
6. Reattach negative battery terminal.
7. Input required calibration data into ECU, Data Logger, Etc.

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12V Switched Power (Red) ────┐                              ┌──── Sensor Pos. (Yellow - Air
                             │   Temperature Sensor         │       or Green - Fluid)
Signal Return (White) ───────┤   Converter Module           │
                             │                              │
Ground (Black) ──────────────┘                              └──── Sensor Neg. (Black)
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Calibration:

CCOM WP – XFI 2.0
When Connected to a FAST XFI 2.0:
1. Connect the white wire to one of the Analog Auxiliary Input Signal pins.
2. Click File →Auxiliary Analog Sensor Setup. The menu displayed below should appear.
3. In the "Select Sensor" box, select the pin which the white wire was run to. AAUX1(V) is Analog Auxiliary Input Signal #1 etc. Then, type the desired sensor name in the "Edit Sensor Name" box. Fill out the rest of the boxes to match the menu shown below. Then click OK to save changes.

Configure User Analog Sensors

Field	Value
Select Sensor	AAUX1(V)
Edit Sensor Name	AAUX1(V)
Sensor Gain	60
Sensor Offset	0
Sensor High Limit	300
Sensor Low Limit	0
Displayed Decimal Places	0

Note
These parameters configure the 0-5 Volt Auxilliary Analog Sensor channels for use by the user.

Displayed sensor values can be calibrated as:

Value = (Sensor Volts x Sensor Gain) + Sensor Offset

Other Applications:
The output of the sensor converter is linear from 0 °F to 300 °F
0v = 0°F
5v = 300°F
60°F / 1 Volt

<u>**Social Media**</u>

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fastofficial

FAST® LIMITED LIFETIME WARRANTY AND LIMITED WARRANTY

FAST® warrants that its EZ-EFI® and CD Ignition boxes are free from defects in material and workmanship for the lifetime of the product. This **Limited Lifetime Warranty** shall cover **only** the original purchaser. All other FAST® products are covered by a **Limited Warranty** which covers defects in material and workmanship for a period of **one year** from the date of purchase.

FAST®'s obligation under this warranty is limited to the repair or replacement of its product. To make a warranty claim, the part must be returned directly to FAST® at the address listed below with a valid Return Merchant Authorization Number (RMA), freight prepaid. Items covered under warranty will be returned to you freight collect. To obtain an RMA, call 877-334-8355 to report the issue you are experiencing. At that time, FAST® will attempt to troubleshoot your issue.

It is the responsibility of the installer to ensure that all of the components are correct before installation. We assume no liability for any errors made in tolerances, component selection or installation.

There is absolutely no warranty on the following:

      A.   **Any parts used in racing applications or subject to excessive wear;**
      B.   **Any product used in marine applications, unless that product is listed by FAST® as a specific marine product**
      C.   **Any product that has been physically altered improperly installed or maintained;**
      D.   **Any product used in improper applications, abused, or not used in conjunction with the proper parts.**

<u>**There are no implied warranties of merchantability or fitness for a particular purpose.**</u> There are no warranties which extend beyond the description of the face hereof. **FAST® will not be responsible for incidental and consequential damages, property damage or personal injury damages**. Where required by law, implied warranties or merchantability and fitness are limited to terms outline above.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

CALIFORNIA PROPOSITION 65 WARNING

This product may contain one or more substances or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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