

# Exhaust Gas Temperature (EGT) and Cylinder Head Temperature (CHT) Gauges

**Westach** EGT and CHT gauges are self-powered and require no battery or connection to vehicle wiring. This makes them ideal for use on cars with total-loss electrical systems. The difference in temperature between the thermocouple probe tip and the other end of the probe cable causes the gauge needle to move. (Note that these gauges are calibrated for 75° F ambient temperature. Higher ambient temperature will cause a proportionally lower reading on the gauge, and lower temperatures will cause a higher reading.) We offer single and dual gauges in the standard 2 1/16" diameter.

**EGT** (Exhaust Gas Temperature) measurement is still one of the most accurate methods of determining if an engine is operating with an optimum air/fuel ratio. EGT gauges have long been used by successful racing teams to keep their engines running at peak power, without having to worry about running too lean and thus risking engine damage. A too-lean condition will be instantly indicated by an excessively high EGT reading. EGT gauges do not rely on an easily-fouled oxygen sensor, so they can be used with leaded gasoline on 2-stroke, 4-stroke, or rotary engines.

A dual EGT gauge is particularly useful on engines that have certain cylinders fed by the primary carburetor venturi and other cylinders fed by the secondary. Ford FF1600 and 2.0L engines fall into this category: Cylinders 1 and 4 are most sensitive to changes of primary jets while cylinders 2 and 3 are most affected by changes in secondary jetting. Using a dual gauge to monitor one cylinder in each group can help balance the carb for optimum power and maximum reliability. You can also add a selector switch to read up to 4 probes with a single gauge (or one side of a dual gauge). The 700° F to 1700° F range is suitable for most 4-stroke engines. The extended 2000° F range is recommended for rotary engines.

Our EGT probes are only .161" diameter and 1" long. They cause no measurable power loss and thus can be used at all times. Each probe has a 44" armored cable. Mated to the standard 18" cable included with each gauge, the probe can be mounted as far as 62" from the gauge. If more length is needed, three different extension cables are available to replace the 18" harness on the gauge. If none of the standard length extensions fit your requirements, you can also make your own custom extension cable using our connector pin kit.

**EGT Gauges (order probes separately):**

Single EGT Gauge, 700-1700°F (no probe) ..... Part No. 1081 ..... \$76.99

Dual EGT Gauge, 700-1700°F (no probes)..... Part No. 1082 ..... \$149.99

Dual EGT Gauge, 500-2000°F (no probes)..... Part No. 1057 ..... \$149.99

Note: When ordering a dual EGT gauge, you must order **two** probes.

**EGT Probes (sold individually)**

Clamp-On EGT Probe for 1" to 1 1/8" OD pipe ..... Part No. 1080 ..... \$56.99

Clamp-On EGT Probe for 1 1/8" to 2 1/2" OD pipe..... Part No. 1084 ..... \$56.99

Screw-In EGT Probe with 1/8" NPT male threads..... Part No. WBT-712-4D2K... \$69.99

All of these probes will work with any of our EGT gauges. Each probe has a 44 inch armored cable for 62" total reach.

**CHT** (Cylinder Head Temperature) is often monitored on air-cooled engines because there is no coolant. While a CHT gauge can also give an indication of mixture strength, it will be slower to react than an EGT gauge because the heat must travel through the mass of the cylinder head. High CHT readings can also be caused by running too much ignition advance.

**CHT Gauge (order probe separately):**

Single CHT Gauge, 100-700°F (no probe) ..... Part No. WBT-2C1 ..... \$76.99

**CHT Thermocouple Probes (sold individually):**

CHT Probe with 14mm ring (12" cable)..... Part No. WBT-712-4..... \$31.99

CHT Probe with 12mm ring (44" cable)..... Part No. WBT-712-8WK... \$38.49

**EGT / CHT Gauge Wiring Accessories:**

Replacement 18" harness (2-wire) for single gauge..... Part No. 1083-2..... \$12.99

Replacement 18" harness (4-wire) for dual gauge..... Part No. 1083-4..... \$14.99

Optional gauge backlight kit..... Part No. 1085..... \$8.19

Extension cable, 4 foot (replaces 18" gauge harness) ..... Part No. 1086-48 ..... \$12.99

Extension cable, 6 foot (replaces 18" gauge harness) ..... Part No. 1086-72 ..... \$15.99

Extension cable, 8 foot (replaces 18" gauge harness) ..... Part No. 1086-96 ..... \$17.99

Connector pin kit only (to make your own extension cable) ..... Part No. 1087..... \$2.99

Four position selector switch ..... Part No. 1088..... \$52.99

Allows up to 4 probes to be read with a single gauge – or with one side of a dual gauge. Comes pre-wired with 8 foot long cables for each probe.



Left: Single EGT Gauge Part No. 1081



Right: Dual EGT Gauge Part No. 1082



Left: Clamp-on EGT probe for 1 1/8" to 2 1/2" pipe Part No. 1084

Right: Screw-in EGT probe with 1/8" NPT male threads Part No. WBT-712-4D2K



Single CHT Gauge Part No. WBT-2C1



Right: CHT Probe with 14mm Ring Part No. WBT-712-4

Note that this probe has a short 12" cable



Left: Replacement 18" Harness for Dual Gauge Part No. 1083-4



Right: Four position selector switch Part No. 1088

## Auto Meter Wideband Air/Fuel Ratio Gauge Kits

**Auto Meter Wideband Air/Fuel Ratio Gauge Kits** combine the accuracy of a wideband air/fuel ratio monitor with the style and performance of an Auto Meter gauge. Programmable range and stoichiometric ratio make these kits suitable for use with different fuels including methanol, LP, and CNG. Dash-mount 2 1/16" diameter gauges are easy to fit in most applications. Gauges are available in either the **Sport-Comp** black face - silver bezel style or the **Ultra-Lite** silver face - silver bezel style. Both styles feature a dual display LED readout for accuracy and a radial graphic display for quick and easy reading. A linear 0-4v output lets you connect to your data logger or ECU. Each kit includes the proven Bosch LSU 4.2 wideband oxygen sensor and a weld-in sensor bung.

Auto Meter Sport-Comp Wideband Air/Fuel Gauge Kit, Pro.... Part No. AM3378 ..... \$319.99

Auto Meter Ultra-Lite Wideband Air/Fuel Gauge Kit, Pro..... Part No. AM4378 ..... \$319.99

Auto Meter Ultra-Lite Wideband Air/Fuel Gauge Kit, Street.... Part No. AM4379 ..... \$214.95

The economical Street version (not shown) is not programmable for range or ratio. It is suitable for use with unleaded gasoline only.

Replacement Broadband Sensor for Auto Meter gauges only ... Part No. AM2243 ..... \$133.95



Sport-Comp Style Part No. AM3378



Ultra-Lite Style Part No. AM4378