

Exhaust Gas Temperature Meter.

The EGT 010 is a professional tool allowing the engine tuner to get an accurate reading of the exhaust gas temperature.

The high specification thermocouple probe is inserted directly into the gas flow for the ultimate accuracy and speed of response. In addition the tuner can set an alarm threshold for audible feedback of over temperature condition and the meter will hold the peak value in memory for review.



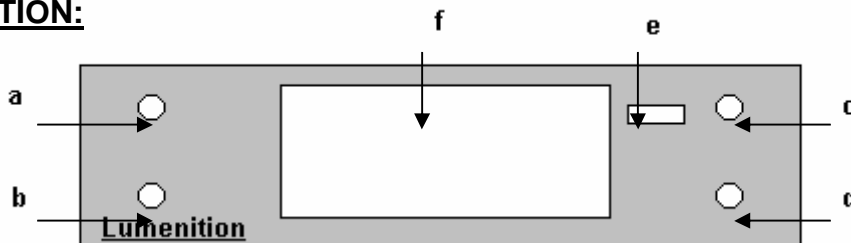
Exhaust gas temperature is a function of a number of different aspects and accurate monitoring can give the tuner vital feedback to attain the optimum control of the engine performance.

The stainless steel probe supplied has an operating range of 80°C to 1020°C, which will be appropriate for all exhaust applications. Lumenition can supply different sensor probes that may be more suitable for some applications.

CONTENTS OF KIT:

1	Meter Display Unit	7	Wire Protection Conduit
2	Thermocouple Probe	8	Snap Fit Terminator
3	PT 1/8 Compression Fitting	9	Cable Ties x 5
4	Audible Warning Device	10	Self-Adhesive Pads
5	Main Harness	11	Manual
6	Supply Harness		

OPERATION:



- MODE Button.** Use this button to select the mode of operation for the meter. Each press of the button will cycle the meter through each of the three modes.
- SET Button.** Use this button to change the value shown on the display where applicable. Where necessary if the button is held the value advances more quickly.
- PEAK Button.** The meter has a memory that will hold the highest reading. This button is used to show the current peak value on the display.
- CLEAR Button.** This button is used to reset the peak memory value to zero.
- OVER and Minus Indicator.** This indicator will show when the temperature reading has been above the set threshold. It may also indicate when the sensor is not connected and is used to show negative values where applicable.
- Main Display.** A 3 digit display shows the values and modes of operation for the meter.

MODES OF OPERATION:

A short description of the three modes of operation for the meter. Press the MODE button to select each operating mode in turn. The selected operating mode will be shown on all three display digits for one second before the display will indicate the current value. If the current mode is stored the meter will enter that mode when it is next switched on.

Mode 1. Display Mode.

In this mode the display will show the reading taken from the temperature sensor. The measured range is 80°C to 1020°C. The value will be shown as a three digit value from 080 to 999 in degrees Centigrade. Temperature readings of 1000 to 1030 are shown on the display without the leading digit i.e. 1018 will be displayed as 018.

Mode 2. Over Temp Threshold Set.

In this mode you can set the temperature value at which the alarm will sound and the OVER light will illuminate. The setting is in 10 degree increments.

Mode 3. Temperature Offset Adjustment.

This mode allows the user to change the temperature offset value of the display.

Mode 4. Display Mode Switch.

This mode allows the user to switch the normal display mode from 10 degree increments to single degree increments. The default setting is Mode 444 at 0 which gives a display resolution 10 degrees.

MODE	Shown	Initial Value	Range	Step
Display	111	----	080 to (1)030	1
Threshold	222	080	080 to 1030	010
Offset	333	0	-999 to +999	+/- 1
Switch	444	0	0 or 1	1

PEAK VALUE DISPLAY.

Press the PEAK button. The display will show the current stored highest temperature value measured by the sensor. The peak value will be shown for 2 seconds after which the meter will return to normal display. Note. The peak value is only stored whilst the meter is switched on. The stored value will be reset to zero automatically when the meter is powered up.

CLEAR.

Press the CLEAR button to reset the stored peak temperature value back to zero. A new value will be set at the current measured temperature as soon as the display is updated.

OVER Indicator.

The OVER indicator will light as soon as the stored peak value is above the temperature threshold that has been set for the meter. The indicator will remain lit until the CLEAR button is pressed or the meter is switched off.

AUDIBLE Alarm.

If fitted the alarm will sound whilst the measured temperature is above the threshold value that has been set for the meter. The alarm will stop when the temperature falls below the threshold value.

Installation of the Sensor Probe.

A stainless steel compression fitting is supplied to allow the probe to be inserted into the stream of exhaust gases. This fitting has a 1/8 BSPT thread which needs to be inserted into a hole of appropriate size cut in the exhaust manifold. If the probe and fitting is not remain on the vehicle it is recommended that a hego sensor boss and blanking plug is adapted to receive the probe fitting – allowing easy removal and replacement as required

