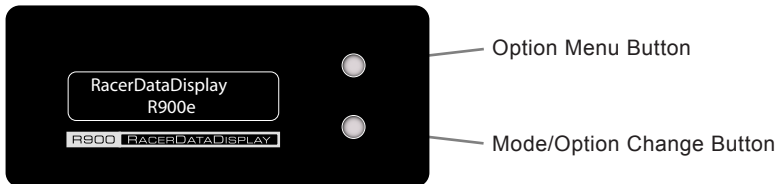




RacerDataDisplay™ R900e User Manual.



To change the screen display mode, depress the Mode/Option button. The display will increment to the next screen mode. Here is a list of the available screen modes.

- MODE 1 - TPS, IGN
- MODE 2 - RPM, VSS and RPM MAX Hold (displays peak RPM for about 1 second)
- MODE 3 - ECT, IAT
- MODE 4 - RPM, O2
- MODE 5 - RPM and Bar Meter
- MODE 6 - RPM, MAP/MAF and boost pressure (only available on vehicles with a MAP sensor)
- MODE 7 - IGN, MAP/MAF
- MODE 8 - VSS and Acceleration Timer

Note: The R900e will display either the MAP or the MAF but not both. If the vehicle has a MAF sensor, then it will be displayed. Otherwise the R900e will default to MAP.

Parameter Description

- RPM - Engine RPM.
- TPS - Throttle Position Sensor. Displayed in %. Most vehicles read around 8% at closed throttle and around 90% at full throttle. This is perfectly normal and actually recommended in the OBD-II specification.
- MAP - Manifold Absolute Pressure. Displayed in kPa (kiloPascals).
- MAF - Mass Air Flow. Displayed in g/s (grams per second).
- IGN - Ignition timing advance. Displayed in degrees.
- ECT - Engine Coolant Temperature. Displayed in degrees (Celsius or Fahrenheit).
- IAT - Intake Air Temperature. Displayed in degrees (Celsius or Fahrenheit).
- O2 - Oxygen Sensor. Displayed in volts or A/F ratio. There is currently only a Honda LEV-II conversion available. Newer Low Emission Vehicles (LEV's) have wider range O2 sensors which can be used to calculate the A/F ratio. Vehicles factory equipped with wide band O2 sensors will always display A/F ratio.
- VSS - Vehicle Speed Sensor. Displayed in mph or km/h.

Option Menu

To select an option, depress the Option Menu button. The display will increment through the options and return back to the previous screen mode. To change an option value, depress the Mode/Option button.

Available options

- Metric/English Units - Metric or English. This option effects VSS, ECT and IAT.
- Display Brightness - 100% or 75%
- Shift Light RPM 1 and 2 - increments by 100 rpm from 3,000 to 11,500.
- Vehicle Speed Set
- O2 Sensor Display - Voltage or A/F ratio
- Stored DTC's
- DTC status

Shift Light

The shift light illuminates whenever the engine rpm is above the RPM 1 setting and **below** the VSS Set Speed. The shift light illuminates whenever the engine rpm is above the RPM 2 setting and **above** the VSS Set Speed. **The R900e must be in screen mode 2 in order for this option to work.** The shift light output is intended to be used with the SL1 LED shift light.

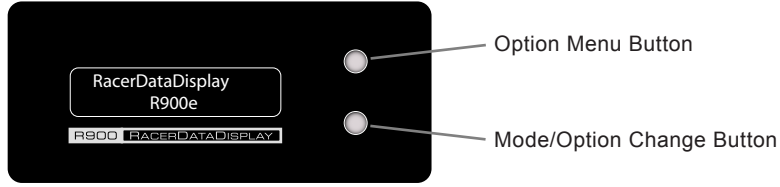
Acceleration Timer

The acceleration timer is active in screen mode 8. This timer is completely automatic. The timer resets when the vehicle speed is at 0. The vehicle must be stopped for about a second before the timer is ready, at which time an "R" will be displayed in the upper rightmost position of the display. The timer starts as soon as the vehicle starts moving and stops at either 60 mph or 100 km/h. The value is then displayed in seconds and tenths of a second. This value will continue to be displayed until it is replaced by another acceleration run. The timer is very precise (within a tenth of a second), however it's "true" accuracy cannot be guaranteed due to variations in tire diameter and speed sensor gearing. This timer is intended to be used as a tuning tool to verify the effectiveness of a vehicle modification.

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Stored DTC's

If there are no DTC's stored, then 0 is displayed.

If there are DTC's stored in the ECU, then the number of DTC's is displayed on the first line and "Retrieve DTC's?" is displayed on the second line. Depressing the Option Change button will retrieve the DTC's and display them. Up to 6 DTC's will be displayed.

Clear DTC's

If there are DTC's stored in the ECU, then depressing the Option button will display this screen. "Clear DTC's?" is displayed. Depressing the Option Change button will clear the DTC's. After the DTC's have been cleared, then "DTC's Cleared" is displayed. Depressing the Option button exits the Option Menu.

Limited One Year Warranty

Brockway Engineering LLC hereby warrants that this product will be free of defects in materials and workmanship for a period of one year after date of purchase. At it's option, Brockway Engineering will repair or replace the defective product.

Precision Engineered and Manufactured in USA.