RGT race tech

Specifications

Power requirement 5V with USB adapter
Power consumption max 0.4A at 5V dc (all lights lit)
Accuracy within 10 RPM
Operating temperature 0°C – 50°C (32°F - 122°F)
RPM range 4000 – 15,000
Size (W x H x D) 84mm x 29mm x 18mm
Weight 40 grams (excluding cable)
Memory lifetime Approximately 40 years
Begin and redline shift point is user programmable
Digital display brightness is user programmable
LED brightness is user programmable
Coolant temperature alarm thresholds are user programmable
2 LED scrolling modes.
4 display modes (Rpm, coolant temp., oil temp. and vehicle speed)
LED Specifications.
Red shift led 21 000 mcd
Red leds 16 000 mcd
Green/Amber leds 12 000 mcd
Blue led 12 000 mcd

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OBD2 SL45 Sequential Shift Light temp gauge

The RGT SL45 is a sequential shift light system which includes a LED digital display tachometer. The SL45 is easily mounted on your dashboard to give you a visual indication of the optimum point at which to change gear whilst racing. No need for manual wiring just plug it to your OBD2 connector and power it with the USB adapter!

Unlike conventional shift lights, which require you to rev your engine in order to program the point at which you want the light to come on, the SL45 can be set up without revving the engine. The built in display enables you to program the shift point more accurately than just using your rev counter.

SL45 also includes monitoring of coolant temperature and vehicle speed (if originally equipped with related sensors). If coolant goes beyond user specified limit, a dedicated led flashing patterm will occur, which will instantly inform the driver.

At the touch of a button, can easily configure and memorize shift point, number of cylinders, LED brightness, LED scrolling mode and coolant temperature alarm values. Button is also used to switch between display modes: rpm, coolant temperatur and vehicle speed.

Installation

1. Plug the OBD2 interpreter in your vehicle's connector.
2. Start your engine.
3. Power supply the shiftlight init with the USB cable.
4. Wait for the protocol to initialize and you’re done!

SL45 Shift light temperature gauge Setup

1. Switch on the ignition, but do not start the engine. Upon power up, after 1s the display will show ‘0000’ to indicate standby mode.
2. Press the button to enter setup mode. Once pressed, each parameter will be sequentially configurable: if no change is done by pressing the button for 3 seconds, the next parameter will be displayed for modification. The parameter order is the following: redline shift point, begin of led lighting rev point, LED brightness, LED scrolling mode, Rpm scaling factor, Coolant alarm threshold.
3. Shift point: Hardware default is 4000. Pressing button will increment shifting point by 100 rpm. Once desired value is obtained, wait for the software to switch to next parameter. Note: For values from 10k to 15k rpm the display will show 100 to 150.
4. Begin of led lighting rev point: Hardware default is 100. Pressing button will increment point by 100 rpm up to shift point. Once desired value is obtained, wait for the software to switch to next parameter.
5. LED brightness: Pressing button will toggle between 3 LED brightness intensities. Once desired brightness is obtained, wait for the software to switch to next parameter.
6. LED scrolling mode: Pressing button will toggle between the 2 scrolling mode (single led or accumulative display). Higher digit will show the selected mode by displaying "0" (accumulative mode) or "1" (single led mode) on digit 5.
7. Rpm scaling factor: Pressing button will toggle between the 2 computing factors (single led or accumulative display). Lower digit will show the selected mode by displaying "2" (default mode) or "4" (Divide by 2 mode)
8. Coolant alarm threshold: Hardware default is 100. Pressing button will increment point by 5 °C. Once desired value is obtained, wait for the software to switch to next parameter.