

## ZR-1 3 Digit Wideband Air/Fuel and Lambda Gauge

Congratulations on purchasing the Zeitronix ZR-1 Air/Fuel and Lambda Gauge.

The Gauge works with the Zeitronix Zt-2 Wideband AFR meter and Datalogging System. The ZR-1 plugs into the Zt-2 DATA port. For clean and easy plug and play installation, power and data is supplied from the Zt-2 DATA port. The ZR-1 cable length is 5 ft (1.5m)

### Items included

ZR-1 Gauge  
4-40 set screws 2 pc  
4-40 nuts 2 pc  
Data Splitter

### INSTALLATION INSTRUCTIONS

Power down the Zt-2, which usually requires turning off your car's ignition. Plug the ZR-1 directly into the Zt-2 DATA port or use the signal splitter for sharing the DATA connection with a PC for datalogging. We do not recommend plugging Zeitronix LCD Display and the ZR-1 at the same time to the Zt-2.

Power up the Zt-2. The ZR-1 gauge will power up in a self-test mode showing **8.8.8.** on the 3-digit numeric display up and briefly light up each LED diode.

The ZR-1 gauge is from the factory set up as the AFR gauge, thus "**AFr**" appears on the 3-digit display after start up. See SETTING UP THE GAUGE below for Lambda start up.

### ZR-1 BUTTON FUNCTIONALITY

#### ZR-1 Gauge in AFR mode.

By briefly pressing the button the 3-digit numeric display shows the current gauge mode. "**AFr**" is shown on the 3 digit display for 1 second then the gauge returns to the operating mode showing the AFR number.

Holding the button for 1 second puts the ZR-1 gauge in a Peak and Hold mode. "**PAF**" is shown on the 3-digit numeric display. After 1 second the gauge displays a Peak and Hold AFR number.

While in a Peak and Hold mode briefly pressing the button shows current gauge mode "**PAF**" on the 3-digit numeric display.

Holding the button for 1 second puts the ZR-1 gauge back into the AFR mode. A peak and Hold value is erased after returning back to the AFR mode.

#### ZR-1 Gauge in Lambda mode.

By briefly pressing the button, the 3-digit numeric display shows the current gauge mode. "**Lbd**" is shown on the 3 digit display for 1 second then the gauge returns to the operating mode showing the Lambda number.

Holding the button for 1 second puts the ZR-1 gauge in a Peak and Hold mode. "**PLb**" is shown on the 3-digit numeric display. After 1 second the gauge displays a Peak and Hold Lambda number.

While in a Peak and Hold mode briefly pressing the button shows current gauge mode "**PLb**" on the 3-digit numeric display.

Holding the button for 1 second puts the ZR-1 gauge back into the Lambda mode. A peak and Hold value is erased after returning back to the Lambda mode.

### SETTING UP THE ZR-1 GAUGE

The ZR-1 gauge can be set up to start up as AFR or Lambda gauge.

The ZR-1 gauge is set up from the factory as the AFR gauge. If you intend to use the ZR-1 as AFR gauge skip this paragraph.

To setup the ZR-1 gauge in Lambda mode, power down the gauge. Power down the gauge by powering down the Zt-2, which usually requires turning off your car's the ignition. Hold the ZR-1 gauge button and power up the ZR-1 gauge by turning on the ignition. The ZR-1 Gauge will power up with a self-test lighting up **8.8.8.** and briefly light up each LED diode. After the self test the gauge will enter the set up mode by displaying "**r 1**". Now release the button. "**AFr**" appears on the 3-digit numeric display. By briefly pressing the button cycle through "**AFr**" and "**Lbd**" shown the on the 3-digit numeric display. Chose AFR or Lambda mode. By not pressing the gauge button for 3 seconds the gauge comes back to the operation mode. Chosen AFR or Lambda mode is saved in the ZR-1 internal memory and the gauge will power up in chosen AFR or Lambda mode.

### MOUNTING OPTIONS

The ZR-1 gauge can be surface mounted almost anywhere inside the cars cabin using a piece of Velcro or double sided tape (not included). The ZR-1 base allows the gauge to be mounted in a standard 2" 1/16 (52mm) gauge pod. For additional mounting options the package includes 2 set screws and 2 nuts.

### Warning!

For automotive use only.

This product is for off road use only.

Never place in a location, which obstructs the view. Never tune the car while driving.

To be used with Zeitronix Zt-2 Wideband AFR Meter only.

Tune responsibly. Zeitronix Inc. is not responsible for any damages.