

## 5.4. Resetting the unit

The Reset will clear the following data, and factory defaults will be restored:

- Gear Positions recorded
- TRE mode (default is Normal mode, i.e. TRE off)
- Auto Brightness Control Sensitivity Level (default is 4)

1. Activate the display (*refer to section 5.1*).
2. Press the button and keep it depressed until "L" (Learning) appears on the display.
3. Press and release the button again to terminate the Auto-Learning procedure. "U" (Update) is blinking on a display for a few seconds. Factory default values have been restored.

*Note:* The unit retains all settings when the battery is disconnected or removed.

## 5.5. Checking whether pre-set (default) or custom (teached) Gear Positions are in use

Disconnect and reconnect the power lead on the battery terminal to restart the unit.

Whenever the unit is powered up, the display indicates either "d" (default) or the number of gears taught (usually **6**) for about 1 second, then the actual gear selected will be shown.

## 5.6. Checking and Adjusting the Sensitivity of the Auto Brightness Controller

The sensitivity can be adjusted in 10 levels, from **0** to **9**.

Level **4** is the default value. Decrease the level if you'd prefer less brightness, and increase the level if more brightness is desired.

If you decrease the Sensitivity Level in low ambient light, or increase it in strong daylight, you may not notice a difference in display brightness because it may be already at minimum or maximum setting.

If you set the level to **9**, the Auto Brightness Controller will be disabled and the brightness will be always at maximum, regardless of the ambient light intensity.

1. Select Neutral and have the ignition key in OFF position. The display is blank.
2. Depress the button then turn the ignition ON.
3. Release the button after about 3 seconds, when "A" (Adjust) is displayed.
4. The current Sensitivity Level is shown on the display (blinking).
- 5.a. If you don't want to change the Sensitivity Level, wait until the display stops blinking. After 3 seconds, the display goes back to normal operation.
- 5.b. If you'd like to change the setting, press and release the button while the display is blinking. You can cycle through the values by pressing the button repeatedly. When the desired Sensitivity Level is blinking on the display, wait for three seconds. The display goes back to normal operation, and the new Sensitivity Level will be in effect.

## 5.7. Cleaning the display

The LED display is protected by a Plexiglas filter element. Wipe clean it with wet sponge. To avoid scratching the filter, do not clean with dry cloth.

The unit is waterproof, however, avoid spraying high pressure water directly on the display.

**Specifically designed for Suzuki EFI motorcycles, including:**

GSX-R600 (2001+), GSX-R750 (1998+), GSX-R1000 (2001+), GSX1300R (1999+), GSX1400 (2001+), DL650 (2004+), DL1000 (2002+), SV650 (2003+), SV1000 (2003+), TL1000R/S (1997+), M109R / M1800R (2006+), GSF1250 Bandit (2007+)

## User's Guide

### 1. Foreword

Congratulations on your purchase of a Gipro unit.

The Gipro from HealTech Electronics Ltd. is not only the most advanced gear indicator on the market, but also the best TRE device available for Suzuki motorcycles.

This product will fit all Suzuki motorcycles with Gear Position Sensor (GPS). Suzukis with Electronic Fuel Injection (EFI) are usually equipped with GPS.

You can also install the unit on recent Suzuki bikes equipped with OEM gear indicator, to take advantage of the Advanced TRE function. Only the Gipro makes it possible to see the selected gear with activated TRE.

The unit comes with Plug-n-Go wiring harness which makes installation quick and easy, eliminating the need to alter the bike's wiring.

### 2. Warranty

To ensure trouble-free operation from the start, all Gipro units have been extensively tested prior to shipment.

Should you not be entirely satisfied for any reason, we offer a **30-day money-back guarantee**. (*All parts must be returned in original condition for full refund.*)

Furthermore the product is covered by our **2-year replacement guarantee** from the date of purchase. (*The unit should not be damaged or subjected to over-voltage.*)

Please contact us in warranty issues at [support@healtech-electronics.com](mailto:support@healtech-electronics.com) regardless of the place of purchase.

### 3. Electrical Specifications

- Supply voltage: +9V to +16V
- Reverse polarity and transient protection on all leads
- Supply current in stand-by: 3.6 mA @ 12V
- Maximum supply current: 85 mA @ 12V

## 4. List of Features

### Fast and accurate

Instant and accurate indication of selected gear for added control and safety. It's not like competing products that all suffer from lag and incorrect readings.

### Quick installation

Plug-n-go wiring harness, easy to mount display  
Complete installation can be done in about 10 minutes on most Suzuki motorcycles.

### Built-in Advanced TRE

Suzuki EFI bikes use different ignition timings in each gear to conform to local regulations for noise and emissions. As a result, ignition timings are retarded in lower gears.

With activated TRE (Timing Retard Eliminator) both throttle response and acceleration are improved in gears 1 through 4. Also, the bike's top speed limiter will be disabled on *GSXR1000*, *GSX1300R*, *DL1000* and *M109R* models. (Note: Using a TRE does not add more HP at full throttle.)

Even if TRE is activated, it automatically switches off in Neutral for smooth idle operation.

By the touch of a button on the Gipro, the rider can switch instantly between four modes:

Off, 4th Gear Map, 5th Gear Map and 6th Gear Map.  
There is visual confirmation of the selected mode.

If a TRE device is installed on a bike equipped with OEM gear indicator, the bike's indicator becomes useless. However, the Gipro will indicate the gear selected regardless whether the built-in TRE is activated or not.

To comply with local regulations, do not activate TRE mode on public roads.

### Large, effective display

1 inch, extra bright display, housed in a compact box.

### Simple, one button operation

All functions can be easily accessed with the button under the display. No need to insert a separate "programming key" or grounding a wire, like on other indicators.

### Auto Brightness Control

The brightness of the display varies with the ambient light intensity. The sensitivity of the sensor can be even fine tuned if desired.

### Auto Learn function

Unit is pre-programmed to fit most Suzuki GSXR bikes and it works out of the box. However, if needed, the unit learns the gear positions automatically. This ensures compatibility with all Suzuki EFI bikes.

### Auto Stand-by

This feature makes it possible to connect the power lead directly to the battery terminal. When ignition is turned off, the unit enters into low power mode and consumes 3mA only.

### Robust design

- Waterproof housing
- Microchip on board, full SMD-design
- Flash memory to store user settings even with the battery disconnected
- In case of connection or power failure, the TRE mode reverts back to Normal operation
- Only inspected, high quality components are built in
- Each unit is extensively tested prior to shipping, guaranteed to work

## 5. How to's

### 5.1. Activating the display

When the ignition switch is ON, engine switch is in RUN position, and the side-stand is in upright position, the display will indicate the actual gear selected.

### 5.2. Reviewing and Changing TRE mode

1. Activate the display (*refer to section 5.1*)
2. Press and release the button.  
The current TRE mode is displayed (blinking) for 3 seconds. The indication can be one of the followings:
  - : Normal Mode, TRE is not active
  - 4 : 4<sup>th</sup> Gear Map is emulated when gear box is not in Neutral  
*Recommended setting for DL1000 and M109R / M1800R*
  - 5 : 5<sup>th</sup> Gear Map is emulated when gear box is not in Neutral  
*Recommended setting for GSXR1000, GSX1300R, GSF1250*
  - 6 : 6<sup>th</sup> Gear Map is emulated when gear box is not in Neutral  
*Recommended setting for other Suzuki models*
  - 7 : Special mode to by-pass 180 km/h top speed limiter  
*Recommended setting for Suzuki models sold in Japan (e.g. GSX1400)*

3.a. If you don't want to change the TRE mode, wait until the display stops blinking (3 seconds). The display goes back to normal operation.

3.b. If you'd like to change the setting, press and release the button while the display is blinking. You can cycle through the four TRE modes by pressing the button repeatedly.

When the desired TRE mode is blinking on the display, wait for three seconds. The unit will work according to the TRE mode selected, and the display goes back to normal operation.

- Notes:
- For your own safety, do not review or change TRE mode while riding.
  - To comply with local regulations, do not activate TRE mode on public roads.

### 5.3. Starting the Auto-Learning procedure

If the display does not indicate the gears selected correctly, start the Auto-Learning procedure:

1. If you have a stand, raise the rear wheel off the ground. Otherwise, sit on the bike.
2. Activate the display (*refer to section 5.1*). Make sure that the side-stand is up and the engine stop switch is in RUN position. Do not start the engine.
3. Select Neutral.
4. Press the button and keep it depressed until "L" (Learning) appears on the display.
5. Release the button. If the gear box is in Neutral, "L" starts blinking and Auto-Learning procedure starts.
6. After a few seconds, the next gear to be learned is blinking on the display (**1**, **2**, **3**, **4**, **5** or **6**). Select the gear indicated on the display. In order to change gear with engine off, you may need to move the rear wheel back and forth while pushing the gear selector. "L" is blinking while the selected gear is being learned.  
Repeat this step until all gears have been learned.  
If you'd like to start over the process, press the button once, then go to step 3.
7. If all six gears have been learned, "U" (Update) is blinking on the display for a few seconds. If your bike has less than 6 gears, press and release the button. The unit saves the new gear positions to Flash memory, then the display goes back to normal operation.