GIpro X-TYPE

Gear Position Indicator with programmable
Shift Light and High Speed Warning

User's Guide

1. Foreword

Congratulations on your purchase of a GIpro X-type gear position indicator. The GIpro products from HealTech Electronics Ltd. are the most advanced gear position indicators on the market today.

This GIpro model will fit all motorcycles and vehicles which have an electronic speedometer (either analogue or digital readout).
Your speedometer is electronic if the odo/tripmeter has LCD readout.

If your speedometer is cable driven, it is still possible to install this product with our GPX-WSS harness kit.

Due to a modern microprocessor and sophisticated firmware, the GIpro-X offers faster and more reliable readings than competing products.
The unit is also the smallest, most compact gear indicator available, making it easy to mount at the instrument cluster.
The display is auto-learning, there are no buttons and no "programming wire".

2. Operation

Your motorcycle is not equipped with a Gear Position Sensor, therefore determining and displaying the gear in use is only possible when the engine is running and the clutch is fully released.

At other times (clutch pulled-in, engine not running, bike stopped) the display will show a "**-**" sign.

The GIpro will NOT show an incorrect gear in any circumstances, except for a split second when the clutch is released slowly (slipping) during a back shift.

3. Installation

The Harness Kit required for the installation is supplied separately. Along with the Display unit, please make sure to order the correct wiring harness kit for your bike. Please refer to the install instructions received with the Harness Kit.

4. Setup

You need to set up this module after installation. It is recommended to perform the setup procedure with WARM engine.

- Raise the rear wheel off the ground by using a stand.
  (If you do not have a stand, or your speedometer is driven off the front wheel, set up the unit while riding. Find a long, straight road with light traffic. The unit does not learn the same gear twice, this makes it easy to set up on the road. You can even shift down and stop during the setup if needed. Do not stare at the display, watch the road and ride with extreme care as always!)

- Turn the ignition On. The display counts backwards ("**6** to **1**") indicating that the memory is clear.
  (If the display counts upwards when ignition is turned on, the memory is not clear. Perform the Reset procedure if you wish to set it up again.)

- The display flashes "**L**" (Learning) slowly.
  Start the engine in Neutral, and let it idle. The display flashes faster for a few seconds while the RPM signal is being received correctly.

- The display flashes "**1**" slowly.
  At this point, wait until the RPM drops to the normal idle speed.

  Select 1st gear, release the clutch and keep the engine at approx. 2-4 times of your idle speed (usually 2000-4000 RPM). The display flashes faster while the SPEED signal is being received correctly. The unit is now learning the gear position. Depending on the bike model, the learning may take from a few seconds up to a minute.

- The display shows "**n**" (next) for a second, then "**2**" flashes slowly.
  Select 2nd gear, release the clutch and raise RPM. Again, the display flashes faster while learning the gear position.

  Repeat this process until all gears have been programmed (5 or 6).

- In top gear, wait until "**o**" (over) is indicated and the display stops flashing.
  (If your bike has 6 gears, you will need to select 6th gear when prompted, otherwise the unit will exit from programming mode in 5 seconds and you will need to repeat the setup procedure.)

The unit is now programmed and should indicate all gears correctly.
Now, when ignition is turned on, the display counts forward ("**1** to **5**" or "**1** to **6**") indicating that it is programmed and fully functional.

Note 1: If you have a *SpeedoHealer* (or other speedometer calibrator) and you change the calibration factor, probably you will have to reset the GIpro and perform the setup procedure again.

Note 2: The unit stores all settings in Flash memory, there is no need to set it up again if you disconnect or remove the battery.

5. Reset

If some gears are not indicated correctly, reset the unit and set it up again.

- Have the engine stop switch in OFF position.

- Turn the ignition key ON and immediately turn it off while the GIpro display is counting up and <u>is showing "**3**, **4** or **5**"</u>.
  Repeat this step 5 more times.

- On the next power up, the display will count backwards ("**6** to **1**").
  The memory is now cleared and you can perform the Setup procedure.

Note: If you perform the Reset procedure, it will set the device to factory default condition. The Shift Light and High Speed Warning features will also be cleared.

6. Shift Light

If you wish, you can program the device to indicate when the desired RPM is reached.

The unit will rapidly flash a "**U**" (Up) once you exceed the pre-set RPM. The feature is intelligent, as it does not operate in top gear. To activate the feature:

- First, perform the deactivation steps as per chapter 8.

- When "**C**" (Clear) is flashing, raise the RPM very slowly.

- The display will begin flashing a "**U**" sign, indicating that the Shift Light learning is in progress. The unit learns the highest RPM.

- Raise the RPM gradually and very slowly to the desired RPM, and hold it for a second. Release the throttle.

- When done, you can save the setting and exit from the learning mode in three ways: start riding, stop the engine or turn ignition off.

7. High Speed Warning

If you wish, you can program the device to warn you when your speed exceeds a set limit.

The unit flashes the actual gear "**1** to **5**/**6**" above the pre-set speed limit. This way you can still see the gear position. To activate the feature:

- First, perform the deactivation steps as per chapter 8.

- When "**C**" (Clear) is flashing, select first gear and start riding.

- The display will be flashing an "**H**" sign, indicating that the HSW learning is in progress. The unit learns the highest SPEED.

- Select a high gear and raise your speed gradually and slowly to the desired speed. Hold it for a second, then slow down and stop.

  *(You should of course slow down and stop as traffic conditions dictate. The unit will not exit from learning mode until you stop the engine. It records the highest speed as long as "**H**" is flashing on the display.)*

- When done, you can save the setting and exit from learning mode two ways: stop the engine or turn ignition off.

8. Deactivating the SL and HSW features

If you wish to deactivate or re-program the Shift Light or High Speed Warning features, perform the following steps:

- Park the bike and turn ignition On *(if it is already on, cycle the ignition key).*

- Start the engine in neutral, and warm the engine if necessary.
  (Do not move the bike, otherwise you will need to restart the sequence.)

- Gradually and very slowly increase the RPM, and keep it in the range 3-4 times of your idle speed (usually 3000-4000 RPM).
  As a guide, the display will show a "**‾**" (top horizontal bar) sign when you keep the RPM in this range.

- Hold the RPM for about 5 seconds, until "**C**" (Clear) is flashing on the display.

- Now, if you wish to deactivate both features, stop the engine or turn the ignition Off.
  Otherwise, continue with chapter 6 or 7.

Note: you can not activate and use both features at the same time. If you program one, it will clear the previous setting.

9. Warranty

The unit is completely sealed and epoxy-encapsulated, which gives the maximum protection for the internal parts from shock, vibration and water ingress.

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

Our dealers offer a 30-day money-back guarantee on HealTech products if the product does not fulfil your expectations. *(All parts must be returned in original condition for full refund.)*

Furthermore the product is covered by our 2-year replacement warranty from the date of purchase.

Web: ***www.gi-pro.net***

Email: *support@healtech-electronics.com*