

GPS Trip Meter - Active

HMGT3000



GPS TRIP METER - ACTIVE

The GPS Trip Meter - ACTIVE is used to measure distance accurately with GPS and Glonass.

It is easy to operate with a full-colour touchscreen and can display 2 independant trips simultaneously.

Ideal for Councils and Rally Drivers.

THE KIT CONTAINS:

- 1.4.3" Display screen
- 2.Power and reset switch
- 3.Magnetic mount GPS Antenna
- 4.Ram mount suction systems

OPTIONAL ACCESSORIES:

- Bulkhead Mount GPS Antenna
- Stubby GPS Antenna

TECHNICAL SPECIFICATIONS:

PART NUMBER	HMG3000
MOUNTING SYSTEM	RAM MOUNT SUCTION SYSTEM
INPUT VOLTAGE	4.4VDC - 32VDC
USB POWER COMPLIANT	
POWER CONSUMPTION	1.4W; 120MA AT 12V
DIMENSIONS (DISPLAY UNIT) MAGNETIC MOUNT GPS ANTENNA ANTENNA CABLE LENGTH POWER & RESET SWITCH CABLE LENGTH	130MM(WIDTH) X 94MM(HEIGHT) X 21MM(DEPTH) 40MM(WIDTH) X 15MM(HEIGHT) X 49MM(LENGTH) 5M 1.5M
GPS RECEIVER	GPS/GLONASS/GALLILEO/BEIDOU, 72 CHANNEL
POSITION ACCURACY	2.5M CEP
DISTANCE RESOLUTION	1M
DISTANCE UPDATE RATE	10HZ
MINIMUM SPEED	2KM/H
SATELLITE AQUISITION TIME	30 SECONDS
OPERATING TEMPERATURE	-40 TO 85 DEGREES CELSIUS

GPS TRIP METER - ACTIVE

POWERFUL PERFORMANCE

The GPS Trip Meter - Active requires no costly installation; simply plug into your power socket and start measuring.

The trip meter updates three-dimensional distance measurements ten times a second.

The full colour touchscreen allows for easy operation of the trip functions. Simply press the up down arrow next to each trip to change direction or press the run button to pause a trip. A full numerical keypad allows for quick update of start distances.

The trip meter is fully customisable via the integrated menu allowing for function such as pause to be tailored to the users particular application.

An external reset switch is provided and can be configured to reset a trip or pause with a press and hold then activating a reset.

Current and average speed are displayed and an over-speed alert can be configured to activate the internal buzzer. The internal buzzer can also be configured to beep when the trips are in count down mode such as when the vehicle is reversing.

The unit is multi voltage and can work in 12V and 24V vehicles.

INSTALLATION INSTRUCTIONS:

1. Mount the GPS antenna on the dashboard or the sun visor as shown in the below image. For best results the antenna must have an unobstructed view of the sky. In vehicles where the windscreen is vertical the antenna can be placed on the roof using the magnetic mount. Placing the antenna under a metal roof will not work.
2. Screw the GPS antenna into the back of the unit.
3. Plug the supplied power cable into the back of the unit.
4. Plug the USB cable into the vehicle's USB power supply. If the vehicle does not have a USB power supply use a USB/cigarette lighter adaptor (12/24V).
5. Using the supplied suction mount, mount the unit in an easy to view position on the dashboard or windscreen. The unit must not obstruct the driver's view of the road. If permanent mounting is required, please enquire about the optional RAM mounting system that allows for permanent mounting on a surface or handlebars.
6. Power the unit, wait for the satellite indicator to go green and you are ready to measure distance.



Typical antenna placement on the dashboard



Power and reset switch



Windscreen mount



Magnetic mount antenna

- Included Accessories

OPERATION:

KEYPAD OPERATION

Press to change between run and pause mode

Press a trip to enter an initial value

Press to change between up and down count



Press the menu button to enter the menu

Press the up and down buttons to set all trips to count up or down

The enter button has the same function as the external reset switch

OPERATION:

NAVIGATING THE MENU

To access the main menu, press the menu key on the bottom left of the unit. The user can navigate using the keypad or the touchscreen.

Keypad

Up and down buttons are used to scroll through menu items or increase & decrease values. The enter button is used to confirm or select an option, and the menu button is used to go back one level or cancel.

Touchscreen

Swipe top to bottom to scroll down, swipe bottom to top to scroll up, and touch to confirm or select an option.

Entering Values

When entering values, such as distances or the password, the keypad or touchscreen may be used. To enter a value using the keypad, you press Up or Down to change the current character/digit, Enter to progress to the next character/digit or Menu to go back one space.

Pressing the screen enables an on-screen keypad/keyboard, which has the following three

Function keys:



Cancel



Backspace



Enter

MENU ITEM DESCRIPTION:

Trip Configuration

The Trip Configuration menu allows the user to configure either of the trips.

Reset to 000.000

This option will reset the value of the selected trip to 0, or to the value set with the Set Reset Value option, below.

Load Value into Trip

This option allows the user to enter a value for the selected trip.

Set Reset Value

This option allows the user to change the reset value. When the selected trip is reset, either through this menu or through another function, it will be set to this value.

Trip Enabled

This option sets whether or not a trip is enabled and counting.

Trip Paused

This option sets whether or not a trip is paused. Exactly what happens when a trip is paused is configured in the Pause Settings menu.

Trip Runs

This option allows the user to choose whether the selected trip runs forwards or backwards.

OPERATION:

EXTERNAL SWITCH:

This menu allows configuration of the external switch.

External Switch Enabled

Selecting “No” in this option prevents the external switch from triggering anything, regardless of what Trip Functions are selected below.

Trip Function

Trip A Function and Trip B Function allows the user to set what happens to each trip when the external switch is pressed – Nothing (Disabled), Reset (Sets the trip value to the Reset Value, see above) or Pause (See Pause Settings, below).

PAUSE SETTINGS:

Auto Unpause after 3s

When this option is set to yes, a paused trip will automatically unpause after a 3 second delay.

Reset on Hold

When this option is set to yes, holding the external switch for 3 seconds will set the selected trip to the reset value.

Paused Trips Count in Background

When this option is set, a paused trip will continue to count in the background, while freezing the value shown on the main display

SYSTEM SETTINGS:

Measurement Unit

This option allows the user to select how distances are shown on the Trip Meter: kilometres, miles or nautical miles.

OVERSPEED WARNING SUBMENU:

Overspeed Warning

Enabling the overspeed warning causes the internal buzzer to sound when the Trip Meter detects speed in excess of the limit set below.

Speed Limit

Allows the unit to set the over-speed threshold.

Average Speed Based on Trip

This selects which trip is used to calculate the Average Speed, shown on the main display.

Brightness

This option allows the user to set the brightness of the display (1-10).

Auto Dim

Setting this option allows the device to automatically detect when to dim the display for night driving.

Night Display

This option enables a high-contrast colour scheme. It can be set to Auto, in which case it will automatically change to the high-contrast scheme at night time.

Calibrate

This option allows the Trip Meter to be calibrated to match (inaccurate) track notes.

Backward-counting Trip Warning

Setting the option causes the internal buzzer to sound when any of the trips are set to count backwards.

OPERATION:

PASSWORD SUBMENU:

Password

Enabling the password prompts the user to enter a new password.

Change Password

Allows the user to enter a different password, once it has been enabled.

TIME SETTINGS SUBMENU:

Daylight Saving Time

When set to on, this option will advance the time forward by one hour.

Time zone

Allows the user to select the time zone.

Reset to Defaults

Selecting this option will reset all settings to default values.

GPS INFORMATION:

Displays GPS data: Latitude and longitude, speed and position accuracy, and satellite information.

SHOW STATISTICS:

Displays data for selected trip (distance, average speed, max. speed and time measured).

Pressing up and down buttons switches the selected trip displayed.



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