GPS **TRIP METERS**

Hummingbird Electronics

ACCURATE AND EFFECTIVE MEASUREMENTS

GPS TRIP METERS

GPS Trip Meters improve safety and efficiency in road management tasks by accurately displaying distance travelled and speed. They are commonly used to locate areas that require minor or major road repair.

They are ideal for council fleets, civil contractors or road authorities that need to measure road distances to accurately position road signs or marker cones.

Hummingbird's GPS Trip Meters feature plug and play flexibility that allows them to be installed independently of the vehicle for a simple, calibration-free installation.

Like all Hummingbird products, GPS Trip Meters are designed and manufactured in Australia for Australian conditions. They are constructed to withstand the diverse and extreme environmental conditions of Australia's mining, civil and construction sites.

Look at the benefits:

- Accurately measure point to point
- Plug and play - no complex installation or modifications to vehicle
- Updates three-dimensional distance measurements ten times a second
- Ability to display multiple trips
- Displays current and average speed of travel
- Internal GPS and GLONASS for highest precision

GPS **TRIP METERS**

GPS TRIP METERS GIVE YOU ACCURATE DISTANCE READINGS

Three-dimensional distance measurements ensure accurate trip distance and speed measurements in places with variable topology, such as hilly areas.

The Active and Elite models feature a full colour touch screen with the ability to track and display multiple trips. These trips can be manually set to count up or down, meaning they are ideal for line marking.

When using this feature, you set a distance and the unit will beep at every interval. There's no need for user interaction once the mode is set.

Keeping operators off the road

Traditionally small-scale road measurements involve operators calculating distance through a surveyor's or 'click' wheel. Using a GPS Trip Meter operators can accurately record the distance for quoting contractors without having to leave the vehicle, ultimately minimising the risks associated with working on busy roads.

The display of multiple readings benefits users by providing an evaluation of a stretch of road and the distance that may require attention.

GPS Trip Meters can also be used for logbook purposes where the vehicle is not used for work purposes on a regular basis.

Data logging

The Elite model gives operators the ability to log automatic and user-defined events.

The unit automatically logs position, speed and trip distance.

User-defined and time traveled event logging allows customisation of up to nine events, for example to mark potholes, fallen trees and other points of interest.

These events can then be extracted in CSV format and viewed in mapping software such as Google Earth.

AUSTRALIAN MADE

GPS Trip Meter - Active

HMGT3000

The GPS Trip Meter – Active accurately measures distance with GPS and GLONASS. It is easy to operate and can display two independent trips simultaneously.

It features a full colour touch screen that can be used to count up or down on different trips simultaneously and be paused, stopped or reset distances.

Current and average speed are displayed and an over-speed alert can be configured to activate an internal buzzer. This buzzer can be configured to beep when the trips are in countdown mode.

GPS Trip Meter - Elite

HMGT8000B

The GPS Trip Meter – Elite has the same functionality as the Active model but includes the ability to display up to eight trips simultaneously.

It can log events and locations of interest with date, time and GPS location. This logged activity can be saved to its internal memory and extracted to Google Earth for further analysis.

Additional features include a ball bank indicator and internal roughness meter.

Part number	HMGT3000	HMGT8000B
Supply voltage	9-32V	9-32V
Maximum power consumption	1.5W	1.5W
Speed range	1 to 999km/h	1 to 999km/h
Velocity accuracy	0.18km/h	0.18km/h
Distance resolution	1 metre	1 metre
Horizontal position accuracy	2.5 metres	2.5 metres
Vertical position accuracy	5 metres	5 metres
Update rate	10Hz	10Hz
Time-to-first-fix, cold start	26 seconds	26 seconds
Time-to-first-fix, warm start	1 seconds	1 seconds
GNSS type	72-channel GPS L1C/A and GLONASS L1OF	72-channel GPS L1C/A and GLONASS L1OF
GNSS connector	Male SMA	Male SMA
Maximum altitude	50km	50km
Operating temperature	-20 to +70°C	-20 to +70°C
Storage temperature	-30 to +80°C	-30 to +80°C
Antenna cable length	5 metres	5 metres
Power and reset switch cable length	1.5 metres	1.5 metres
Display unit dimensions (W x H x D)	130 x 94 x 21mm	130 x 94 x 21mm
Antenna dimensions (W x H x L)	40 x 15 x 49mm	40 x 15 x 49mm
Weight	500g	500g

Visit hmbe.com.au/trip-meters for more information

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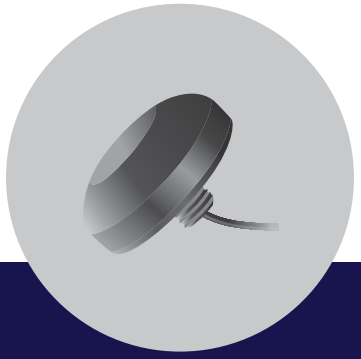
The GPS Trip Meters work well with...

Antennas

Hummingbird offer a range of sophisticated GPS, GLONASS and active GPS antenna devices with magnetic, adhesive or bulkhead mounting solutions. There are three types to choose from:



Bulkhead Antennas
HMGA0B1SMAR and HMGA0B1SMA

Magnetic Antennas
HMGA0M1SMAR and HMGA0M1SMA

Stubby Antenna
HMGA0S0SMA

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