



Hummingbird's GPS Trip Meter provides a highly visible and configurable distance readout, independent of the vehicle. No installation is required.

Two independent distance readouts as well as speed and other statistics are available.

Powerful Performance

Designed for harsh automotive environments, the module features a tough fascia with integrated buttons and LCD graphics display. An adjustable screw or suction mount allows for optimum positioning for the operator.

The ability to track 50 satellites simultaneously, enhanced receiver sensitivity and active antenna result in fast time-to-first-velocity-calculation as well as the ability to operate in the harshest RF environments such as canyons and cities. Speed errors will occur in RF blackout zones such as tunnels. Distance lost due to RF blackout is compensated for by adding it to the total distance recorded once satellites become visible again.

Three dimensional velocity calculations are typically accurate to 0.36km/h and are updated 4 times per second. In application measurements of distance have typically resulted in accuracies of better than 0.25% over 1km. For best accuracy, the vehicle should be moving at a speed of greater than 2km/h.

Two trips are displayed simultaneously as well as current speed and the number of satellites currently being used. Trip statistics such as average speed, maximum speed and trip time can be viewed via the integrated menu. The display is highly visible both at night and in sunlight due to the use of an industrially rated, transfective graphics LCD display.

An external switch is provided that allows reset of trip A when pressed. Optionally, a freeze function can be enabled so that trip A freezes instead of resetting when the switch is pressed. The trip distance continues to be calculated, whilst the display is frozen and will be displayed as soon as freeze is released by pressing the switch again.

GPS Trip Meter

***Full Featured Trip Meter with
Integrated GPS***



Highly visible readout

If the external switch is pressed and held for 5 seconds, trip A will reset. The integrated keypad and menu allows for customisation of these and other functions.

The unit is provided with a 1.5m power cable terminated in a standard automotive cigarette-lighter connector. An external antenna is provided, which can be either magnetic mount or bulkhead mount. The bulkhead mount antenna would only be used in permanent installations

Features

- Simultaneous dual trip and speed display
- 1m precision on both trips
- Trip Statistics
- 10V to 36V supply voltage
- Adjustable industrial screw-mount or suction windscreen mount
- Highly visible sunlight readable display
- Integrated user interface for customisation
- Kilometers, Miles and Nautical Miles
- External reset switch
- Optional trip freeze function

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Technical Specifications and Ordering Information

Part number	HMGT1000SB	HMGT1000SM	HMGT1000PB	HMGT1000PM
Mounting system	windscreen suction		permanent screw mount	
Antenna type	bulkhead	magnetic mount	bulkhead	magnetic mount
Input voltage	minimum 10V; maximum 36V			
Power consumption (W)	maximum 1.8W (110mA @ 12V; 70mA @ 24V)			
Dimensions – display module (mm)	110mm(width), 75mm(height), 25mm(depth)			
Acquisition time, loss of lock	less than 2s (90% of the time)			
Acquisition time, temp loss of power	less than 10s (50% of the time), less than 13s (90% of the time)			
Acquisition time, power-up	less than 38s (50% of the time), less than 42s (90% of the time)			
Resolution	Distance: 1unit (meter, ft), speed: 1unit (km/h, mi/h, knots)			
Distance accuracy	typical in-application measurements show better than 0.25%			
Update rate	4 times per second (4Hz)			
RF interface	SMA connector supplied on magnetic and bulkhead antenna versions			
Antenna dimensions (mm)	51(l), 42(w), 12(h); cable length minimum 3m			
Cable length	power cable and external switch provided with 1.5m cable			
Operating temperature	-40°C to 85°C; 5% to 95% relative humidity			
General	50 channel tracking receiver, battery backup 12 days			

