



# Fully Featured GPS Speedometer

*with Odometer*

Hummingbird's fully featured GPS Speedometer provides a highly visible and configurable speed and distance readout, independent of the vehicle. No installation other than power provision 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 available as well as current speed and the number of satellites currently being used.

The display is highly visible both at night and in sunlight due to the use of an industrially rated, transfective graphics LCD display.

Both trips are reset through the menu. Both trips are pre-settable.

An external magnetic mount antenna is provided as standard. A bulkhead mount antenna would only be used in permanent installations and is available as an optional accessory, as well as a windscreen suction mount.



*Highly visible readout*

## Features

- Simultaneous speed and trip or time displayed
- One decimal place precision on trip Meter (10cm in Kilometer mode).
- Trip A (trip meter) and Trip B (odometer)
- 10 million kilometer range Odometer
- 10V to 36V supply voltage
- Adjustable industrial screw-mount
- Suction windscreen mount is available as optional extra
- Highly visible sunlight readable display
- Trip Meter
- Odometer
- Clock
- Over-speed warning
- Speed in Kilometers per Hour, Miles per Hour, Knots or Meters per Minute. Others available on request.
- Odometer in Kilometers, Miles, Nautical Miles and Meters

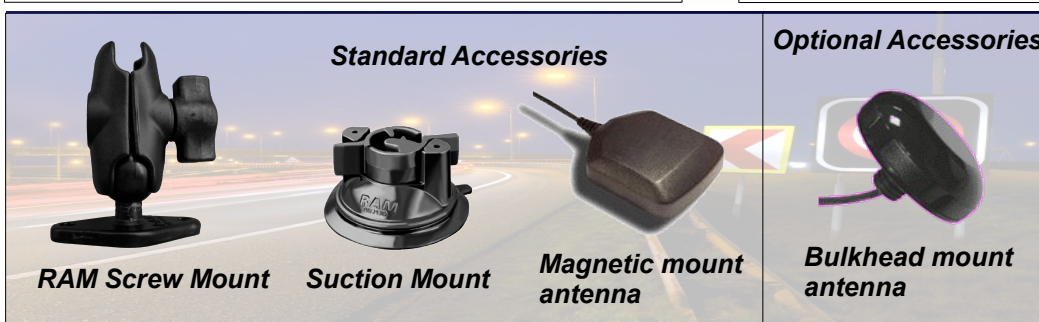
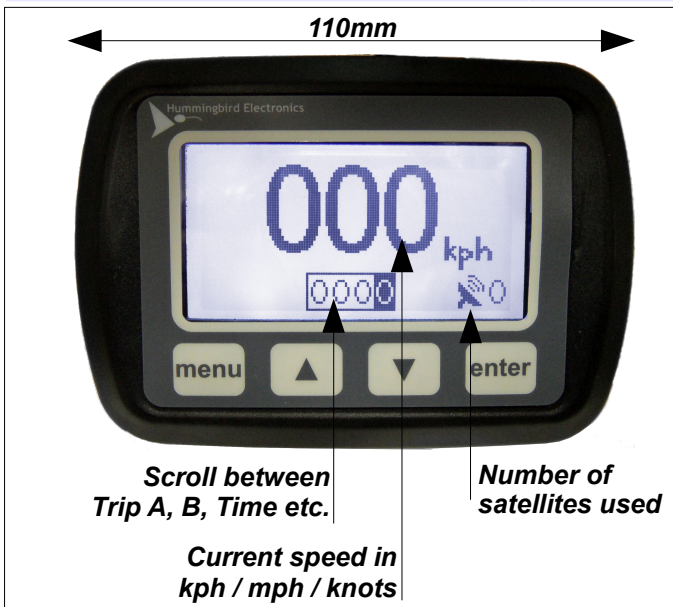
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## Technical Specifications and Ordering Information

Part number	HMST1000B
Speed range	Minimum 2km/h; maximum 999km/h (or mi/h)
General	50 channel tracking receiver
Update rate	4Hz
Optional accessories	Bulkhead, SMA antenna and Suction Mount
Accuracy, horizontal	< 5m (50%), < 8 (90%)
Accuracy, altitude	< 10m (50%), < 16 m (90%)
Accuracy, velocity	< 0.06m/sec = 0.22km/h
Acquisition, after loss of lock	< 2s (90%)
Acquisition, first time power applied	< 38s (50%), < 42s (90%)
Acquisition, temporary loss of power	< 10s (50%), < 13s (90%)
Operational limits, altitude	18000m
Operational limits, velocity	1000km/h
Input voltage	9V to 36V
Power consumption	Maximum 1.2W (100mA @ 12V), including antenna
Dimensions	110mm(w), 80mm(h), 30mm(d); face 82mm (w)
GPS Antenna dimensions	51mm (L), 42mm (W), 14mm (H)
GPS Antenna cable length	5m
GPS Antenna connector type	Male SMA
Operating temperature	-40°C to +85°C
Storage temperature	-55°C to +105°C
Humidity	5% to 95% R.H. non condensing at 60°C



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