

**AC-GNSS\_Mouse\_25Hz-000**

**25Hz GNSS Receiver**



**Key Features**

- 25Hz Update Rate
- All four major GNSS constellations - GPS, Galileo, GLONASS and BeiDou - can be received concurrently.
- SBAS and QZSS augmentation support
- Typical accuracy of CEP < 1m
- Speed, Course and Position Accuracy Channels

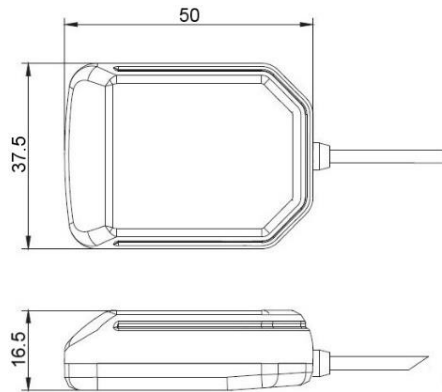
**Options:**

- Mounting Plate
- Connector and cable length can be modified on customer request

**Technical specifications**

<b>Mechanical</b>		<b>Electrical</b>	
Dimensions	mm	Powered by 2D Logger or Dashboard	
Weight Car (cable included)	g		
Housing material		<b>Environmental</b>	
Connection		Sealing class	IP67
Type	Binder 712, 4PM	Operating temperature	°C -40 to +85
Wire cross section	Raychem	Humidity	% 5 to 95
Length	mm	<b>Ordering information</b>	
	2000	AC-GNSS_Mouse_25Hz-000	

## Dimensions



## Connector layout

## Connector type

### Logger Communication, Binder 712 4PM

Pin	Name	Description	Color
1	TxD	Data Tx	white
2	RxD	Data Rx	green
3	GND	Ground	black
4	Vext	Power supply (4-28V)	red



front view

## Mounting Instructions



### Improper mounting of the GNSS Receiver can result in bad GNSS accuracy!

- Mount the GNSS Receiver solid / rigid to the vehicle, avoid vibrations and do not use velcro or similar.
- Mount the GNSS Receiver to a stable and low or non-vibrating part of the vehicle
- The GNSS Receiver must be mounted on the top of the vehicle and be oriented parallel to the horizon.
- The optimum receiver location must have “unshaded” direct view to the sky.
- When mounting the receiver on non-metal surfaces, please use the self-adhesive ground plane - AC-GPS\_ground\_plane-000

### GNSS Speed, Course and Position Accuracy Channels

The Receiver has additional channels for speed, course, horizontal and vertical position accuracy.



- “#SpAccu” - actual speed accuracy in  $\pm x$  [km/h]
- “#CourAccu” - actual course accuracy in  $\pm x$  [°]
- “#HorAccu” - actual horizontal position accuracy in  $\pm x$  [m]
- “#VerAccu” - actual vertical position accuracy in  $\pm x$  [m]