



# DGPS Base station

Ground-based Differential GPS (DGPS) requires that a DGPS Base Station be set up on a precisely known location. Navicom's Dynamics Base Station automatically surveys itself to its location when first switched on and permanently retains this information. If an identified, surveyed location is known, this information can be entered and will be retained.

Real-time DGPS correction information is transmitted by the base station to all rovers able to receive the UHF signal. The correction is received by the rover via radio and the rover applies the correction to its internally calculated raw GPS position, in order to generate a DGPS corrected position.

## SPECIFICATIONS

Enclosure dimensions:	420mm H x 250mm W x 110mm D
Weight:	9Kg
Power requirements:	110-265VAC 47 – 63 Hz single phase fused internally at 2A
UHF operating range:	up to ~30km depending on terrain and antenna <i>height</i>
Transmission protocol:	RTCM SC-104 v2.3
Output power:	Adjustable up to 5W
Environmental:	
Operating Temperature:	-32°C to +74°C (-25°F to +165°F)
Storage Temperature:	-40°C to +85°C (-40°F to +185°F)
Humidity:	95% non-condensing

*Note: Data sheets for GPS and UHF Antennae can be provided on request.*

## COMPONENTS

- Main enclosure housing GPS receiver, UHF radio and power supply
- GPS antenna
- UHF antenna
- RF cables (10m of RG213 for each antenna is supplied by default)
- Key operated ON OFF switch
- Unit intended for indoor mounting.
- Atex/NEMA certified enclosures also available if required. Please ask for details

*Base station should be installed where there is suitable and reliable power source and the GPS and UHF antennae will require unobstructed external locations.*



**Navicom Dynamics**  
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