

# RDF PRODUCTS

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## Product Data Sheet; Model **DGP-16HV** Ultra High Sensitivity GPS Sensor Module

### FEATURES

- Ultra High Sensitivity (-185 dBW)
- Compact, Rugged, Light-Weight Unit
- Hermetically Sealed for Outdoor Deployment
- Magnetic Base for Vehicle Roof-Top Mount
- Fully Compatible with DFP-1000B/DFP-1010B
- 1 Second Updates for Real-Time Operation
- Wired & Tested for Plug and Play Operation



### DESCRIPTION

The RDF Products Model DGP-16HV is a compact, light-weight, ultra high sensitivity GPS sensor specifically designed for use with RDF Products mobile DF systems employing the HuntMASTER digital mapping and location software. This unit reports the Lat/Lon coordinates to enable HuntMASTER to precisely establish the mobile DF station location on its digital moving map display. The DGP-16HV is required for all mobile DF systems that include HuntMASTER.

With its 1 second Lat/Lon update rate, the DGP-16HV also allows HuntMASTER to compute the vehicle heading for vehicle speeds of 5 km/h or greater. This important feature eliminates the requirement for expensive, inaccurate, and hard-to-calibrate flux-gate digital compasses in most mobile DF applications.

The DGP-16HV includes a magnetic mounting base that allows it to easily mount on a vehicle roof-top or other ferrous surface. This base includes a protective rubber pad to prevent marring of painted surfaces.

Connection to the DFP-1000B/DFP-1010B DF processor is made via a single interface cable terminated with a DB9 connector. Aside from enabling a DFP-1000B/DFP-1010B dip-switch to apply +11 volt DC power, no user configuration is required. Current drain for +11 volt operation is approximately 75 mA.

This rugged product is hermetically sealed for permanent outdoor installation and can withstand extended exposure to rain and humidity. Its operating temperature range is -30°C to +80°C.

Excluding the interface cable, the DGP-16HV measures 3.58" x 1.65" (W x H) and weighs 6.1 oz. Total weight including the 5 meter interface cable and DB9 connector is 13 oz. For additional technical information, refer to the Garmin GPS 16x Technical Specifications document for the GPS 16xHVS model. (This document is included on the RDF Products Publications CD.)

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