

GPS Options for Magnetometers

Our leading line of ground, airborne and stationary magnetometers and gradiometers now supports advanced new positioning options from OmniSTAR and Satellite based Augmentation System (SBAS)

Enhanced GPS positioning resolution.

Standard GPS Option B:

- 1m SBAS (WAAS, EGNOS, GAGAN, MSAS)

High resolution GPS Option D:

- 0.6m SBAS (WAAS, EGNOS, GAGAN, MSAS)
- 0.6m OmniStar (VBS2 subscription)

OmniSTAR is a paid subscription service offering resolution of less than 1 m horizontal and vertical. It delivers real-time and highly reliable positioning services

for land and air applications worldwide, 24hrs a day, 365 days a year.

SBAS comprises of the US-based WAAS, European EGNOS, Indian GAGAN, and Japanese MSAS systems. They offer high accuracy, integrity, continuity and availability.

All components are backed by two year warranty.



Coverage areas supported in our Magnetometer Systems.

OmniSTAR is a global service; and SBAS comprises of WAAS, GAGAN, EGNOS and MSAS satellite systems.

In the past, geophysical surveying tools, such as magnetometers, relied on time-consuming manual positioning options, usually via a grid-based system of staked lines.

However, the development of differential global positioning systems (DGPS) has revolutionized ground positioning. The result is integrated DGPS that can guide surveys in remote regions and record positioned survey data to an accuracy never possible before.

Positioning technologies include new options for working around the world as well as for working in Canada, USA, and Mexico. Global capabilities include OmniSTAR (paid subscription) and Satellite Based Augmentation Systems (SBAS) which is available at no cost.

OmniSTAR Support

We are pleased to provide support through the OmniSTAR positioning technology across our leading line of magnetometers.

OmniSTAR provides a cost-based GPS enhancement data via satellite for worldwide coverage. 100 reference stations, 6 high power satellites, and 2 global network control centers provide a highly reliable positioning service.

We currently support the OmniSTAR VBS level of differential GPS service. VBS is a "sub-meter" level of service. A typical 24-hour sample of VBS will show a 2-sigma (95%) of significantly less than 1 meter horizontal position error and the 3-sigma (99%) horizontal error will be close to 1 meter.

Worldwide DGPS Coverage via OmniSTAR and SBAS

For customers working globally, there are two advanced options that are available to assist in acquiring high-resolution positioning information. These include OmniSTAR and SBAS.