

# The GPS1000 Plus: A low cost GPS solution for general logging needs

## What is the GPS1000 Plus?

Ag Leader is proud to announce a new look for the leader in accurate, low cost GPS. The GPS1000 Plus is a low cost DGPS receiver that provides position data for operations that don't require sub-meter position accuracy for guidance. The GPS 1000 Plus is a high quality, high performance receiver that is more affordable than the expensive sub-meter receivers and much more accurate and durable than low cost GPS products designed for consumer markets.



## How Does it Work?

The GPS1000 Plus provides differential correction from the WAAS (Wide Area Augmentation System) or EGNOS satellite differential systems. The GPS1000 Plus provides 2 meter accuracy when using WAAS/EGNOS differential and 4 meter accuracy without any differential correction. The unit contains a GPS engine that can track 10 GPS satellites.

Minimal position filtering and fast satellite acquisition make the GPS1000 Plus the obvious choice for such operations as yield mapping, site verification and application rate logging. Improvements to the new GPS1000 Plus include **improved weak signal tracking** for superior performance around buildings and trees & the ability to **output a radar speed signal** for input into your rate controller or other equipment that accepts radar speed input.

Not only does the GPS1000 Plus provide quality data at an affordable price, but it is also designed to meet the harsh requirements of the farm environment. The unit is weatherproof and protected against power transients. To back these claims up, Ag Leader provides a 2-year warranty on the unit.

## Who Needs a GPS1000 Plus?

The GPS1000 Plus is a cost effective way to add mapping to you operation or a valuable addition as a second GPS receiver for yield mapping or soil sample collection, scouting or site verification. The new GPS1000 Plus can also be used for application rate mapping as well. Although this GPS is not a replacement for Ag Leader's guidance capable GPS systems, it compliments these products by allowing you to add an additional GPS receiver at an affordable price!

- Anyone wanting to start yield monitoring and mapping but hasn't been able to justify the cost to get started. A *PFadvantage* and GPS1000 Plus system is one of the most versatile, lowest cost systems available to get started in Precision Ag.
- Anyone who would like to add a second yield mapping system to their farm but hasn't been able to justify the cost, or farmers looking for a low cost GPS for an Ag Leader monitor, or any other application that uses NMEA GPS.
- Users who already have a GPS guidance system and would like a second GPS receiver for general mapping needs.
- Anyone looking for a more reliable speed input than a radar gun for their equipment
- The compact design and lightweight of the GPS1000 Plus make it ideal for using with a handheld logging device such as a Pocket PC. The factory default settings on the GPS mean no complicated, time consuming setup for superior performance.

**Ag Leader Technology also backs the GPS1000 Plus with the industry's leading technical support group.**

## Main Features

- All-in-the-antenna design
- 10 channel GPS, L1, C/A code
- Uses WAAS (Wide Area Augmentation System) Differential correction
- 2 meter accuracy with differential
- NMEA message output
- Weatherproof housing
- Protected from power surges and electrical shorts
- Compatible with Ag Leader's YM2000, PF3000, PF3000 Pro, and new Insight monitors.
- No setup required for use with Ag Leader monitors
- Compatible with most other precision farming systems including Case AFS™ and John Deere Greenstar™
- Configurable from a PC
- Superior weak signal tracking
- The ability to output a radar speed signal

## Environmental Specifications

- Operating Temp: -40 C to +85 C
- Humidity: 99% non-condensing

## Physical Specifications

- Size: 5.5"H x 5.0"W x 2.1"D
- Weight: under 12oz
- Power: 9 to 16 VDC
- Power Consumption: Less than 200 mA
- Connector: 7-pin, circular

## Receiver Specifications

- GPS Engine: 10 Channel WAAS
- Accuracy: 2m RMS-WAAS/EGNOS
- Update Rate: 1Hz
- Cold Start Time: 6 minutes (DGPS)
- Re-acquisition: 100 mS

## Data Input/Output Specifications

- NMEA version 2.2 protocol output via RS232
- Default output of GGA and VTG NMEA messages. Other output messages can be configured from PC (GLL, GSA & RMC available).

## Available Systems and Cables

<b>YM2000/PF3000/Insight</b>	
P.N. 2001487.....	\$795.00
<b>PFadvantage/PF3000 Pro System</b>	
P.N. 2001488.....	\$795.00
<b>Mobile Logging System</b>	
P.N. 2001489.....	\$795.00
<b>Auxiliary Power/Data Cable</b>	
P.N. 3000476.....	\$ 85.00
<b>GPS Power Supply Cable</b>	
P.N. 2000825.....	\$ 22.00
<b>GPS Tractor Battery Power Cable</b>	
P.N. 2000827-12.....	\$ 38.00
<b>GPS Cigarette Lighter Power Cable</b>	
P.N. 3000475.....	\$ 90.00
<b>Radar adapter cable, Dickey John</b>	
P.N. 3000480.....	\$ 30.00
<b>Radar adapter cable, Raven</b>	
P.N. 3000479.....	\$ 28.00
<b>Radar adapter cable, Hiniker</b>	
P.N. 3000478.....	\$ 26.00

Prices and part numbers are subject to change.

For more information on the GPS1000 Plus contact our Technical Support Group at (515) 232-5363 or visit the Ag Leader web site at [www.agleader.com](http://www.agleader.com).