

Topcon GMS-2 GPS Data Collection System

TIPS provides customers with Topcon GMS-2 hardware running ArcPad software. The Topcon GMS-2 is designed use dual-constellation satellite tracking. This unit provides an intergraded digital camera. Topcon GMS-2 data is convertible to CAD and GIS formats, and offers the highest degree of accuracy relative to navigation/recreation GPS equipment.

GPS Overview

Global Positioning System technology allows digital capture of three-dimensional locations anywhere on or above the earth's surface with 24/7 availability. This free system is the same one used for vehicle navigation or hiking. GPS horizontal positional accuracy ranges from 10 feet for navigation/recreation equipment to around one inch for survey units. Elevation accuracy is generally one half or one third of the XY accuracy. GPS accuracies can be enhanced in real-time by use of commercial or WAAS satellite correction signals or by later post-processing using base station data posted on the Internet. Navigational /recreational GPS is biased towards yield of GPS signals irrespective of accuracy; GIS mapping GPS is biased toward collecting GPS positions of known accuracy.

Features

- Integrated Digital Camera & Electronic Compass
- Internal Bluetooth® Wireless Technology Connectivity
- Removeable / Rechargeable all-day battery
- Expandable Memory Options
- Dual-Constellation Satellite Tracking
- Ultra Sharp Color TFT Touch Screen

Geospatial Data Portability

GPS data is automatically collected into standard “real-world” coordinate systems that can be easily translated into GIS coordinate systems. CAD system support is provided for geospatially-enabling CAD drawings. Using GPS data exported into standard GIS/CAD formats allows TIPS users to more effectively access and share geospatial data across organizational boundaries.

Topcon GMS-2



SMCRA BENEFITS/USES:

- Capture digital field data for permitting and reclamation investigations.
- Collect data in standard coordinate systems and datums.
- Provide centimeter accuracy positions (after post processing) that spatially-enable AML and Title V analysis.

TIPS TRAINING CLASSES:

Topcon-certified vendor training.

NEED HELP????

<http://www.tips.osmre.gov/MC/default.htm>

Contact: Robert Welsh
rwelsh@osmre.gov