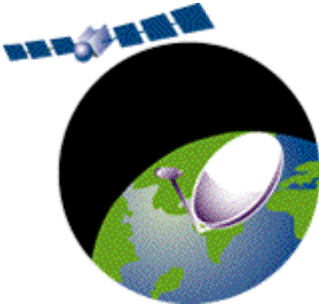


Satellite Antennas

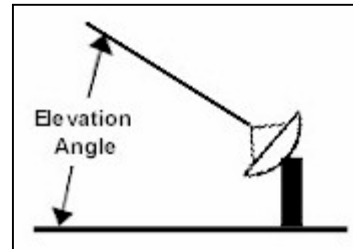


The systems used to broadcast and receive signals from and to satellites are both complex and impressive. Depending upon the exact application, the type of antenna system needed, can vary widely. For fixed

earth station applications, the antenna is simply pointed at the appropriate satellite, and locked in place. However, for mobile applications such as Satellite News Gathering (Vans) and Flyaway systems, the dynamic of accurately aligning the antenna with the appropriate satellite each and every time becomes critical. Errors in the order of fractions of a degree can cause signal degradation, loss, or failure to acquire a signal. To accomplish this task reliably, companies have developed what



are known as antenna positioner/controllers. These are electronic devices, which use various sensors to measure, then automatically adjust the antenna to the proper azimuth (deviation from true north) and elevation (slope angle) positions required.



The elevation angle is normally measured using an electronic inclinometer, with a minimum measurement range of 0-90 (+/-45)

degrees. *Spectron* proudly serves this market with the SPECTROTILT™ *Electronic Inclinometer*. The SPECTROTILT™ has distinct advantages over the electronic inclinometers from other manufacturers who have traditionally supplied this market. They use plastic housings, and do not have sealed sensors and/or electronics, leaving them vulnerable to the environment. The SPECTROTILT™ on the other hand has a rugged aluminum housing, hermetically sealed sensor, and fully potted electronics providing superior protection. In addition, the RS232 version provides an absolute accuracy of +/-0.3 degrees, which is typically 10X more accurate than competing devices.