



HIP

Handheld Instrument Pod



The Handheld Instrument Pod (HIP) is a versatile system interface that allows the user to combine serial instrument data, event/counter data, and GPS NMEA string data into a single serial data stream for connecting to a computer or data logger. The HIP Module can be utilized to satisfy a wide variety of instrument interface requirements with its four Instrument Serial Ports, GPS Serial Port, and eight event/counter channels. Since the data is combined with the GPS information, it forms the foundation for a small lightweight position correlated data acquisition system.

The flexibility of the module is achieved through the storage of the module configuration parameters into Flash Memory. The operator can easily change the parameters associated with each data input channel such as the serial port Baud Rate, number of serial ports or event/counter channels enabled, and the sample rate of the serial ports or event/counter channels. Additionally the module can be setup to generate the character or character sequences needed to trigger certain instruments, thus providing better synchronization with the GPS information.

Its small size (6.25 x 2.9 x 2.2 inches) and light weight (1 lb) enables the HIP to be easily adapted to any type of survey platform. Applications range from man-carried to large towed arrays. The unit combines the navigation instrumentation data with survey instrumentation that generates RS232 serial data, or event-based data, into a single communication string that is connected to the field computer or data logging system.