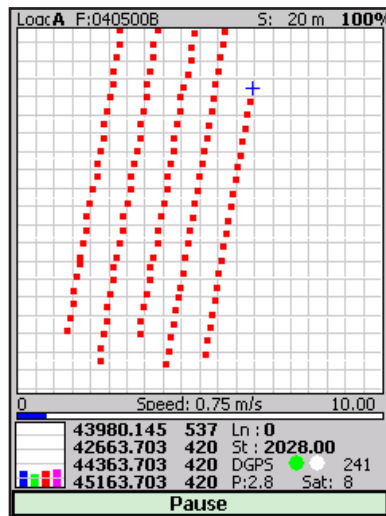


TrackMaker823 data logging system

for Windows Mobile and Windows 7 based field computers

The **TrackMaker823** system for Geometrics G-823, G-822, G-862, and G-882 magnetometers (1 to 6 probes configurations) consists of two programs: the field data acquisition component **Nav823** for Windows Mobile devices or for Windows 7 systems and the data processing software **TrackMaker823**.

TrackMaker823 will increase productivity significantly in areas where multiple probes systems can be configured as a single array. The **Nav823** data acquisition software can collect readings from up to 6 probes and one GPS receiver into one file simultaneously. The software will also significantly speed up the time it takes to complete a survey by providing uniformly spaced lines with real time navigation and array swath*. Thereby preventing skipped areas and overlapping coverage.



Display on Windows Mobile device

and features real time navigation by displaying current and logged positions as dots or scaled array swath*, while

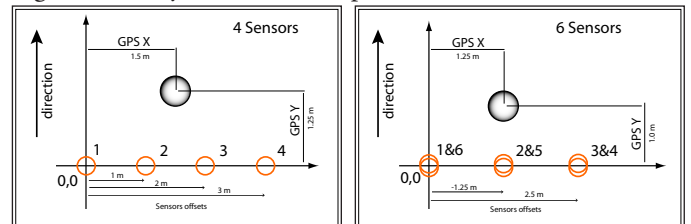
it takes to complete a survey by providing uniformly spaced lines with real time navigation and array swath*. Thereby preventing skipped areas and overlapping coverage.

TrackMaker823 software works with virtually any GPS receiver by supporting NMEA messages: GGA, POS, GLL, LLQ, LLK, GGK, and Trimble and Leica Robotics Total Stations,



providing a graphical and numerical view of the collected magnetic data, and GPS parameters and coordinates.

The accompanying Windows based data processing program **TrackMaker823** is designed to process data collected under control of the **Nav823**. The program positions each magnetic sensor based on the user specified array geometry (see Figure below), GPS recorded positions, instant heading of the array, and the user specified filters.

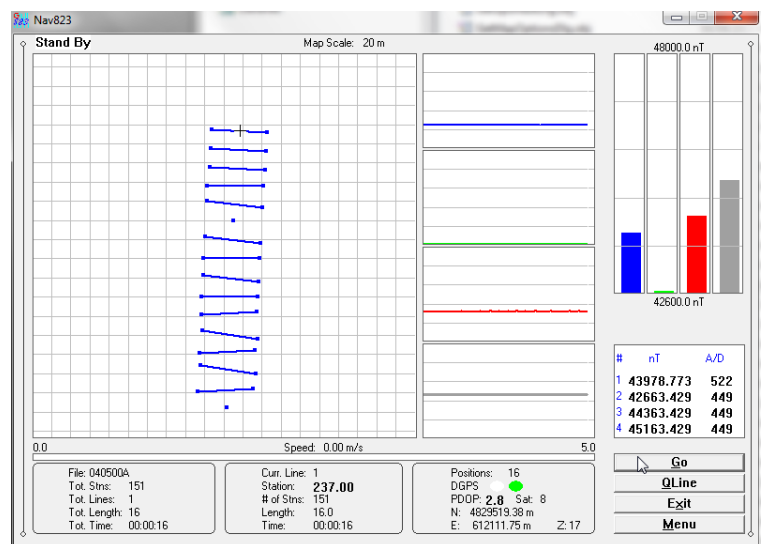


Specifying array geometry for four and 6 magnetometer probes and GPS antenna

Main features of the Nav823 for MS Windows 7:

- easy to read map with user specified colour and size for current position indicator and the array swath*
- adjustable map scale, grid interval, and cursor band
- easy to read magnetic channels equalizer bar, profile and numeric display for all connected probes
- update at a rate matching hardware stream
- continuous monitoring and warnings for each instrument and GPS cable connections
- monitoring connections
- extensive survey parameters info
- number of GPS satellites, PDOP, and position quality indicator monitoring
- user specified GPS warning mask
- latitude and longitude or UTM coordinate display
- actual speed of the system
- one key toggle for extended length profile mode

* Swath display is available in Windows 7 version of Nav823 only



Windows 7: actual GPS antenna position along array is reflected on a map swath bar

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