IDA GSN Calibration Procedures
Traditional calibration procedures verify the DAS sensitivity and measure shape of system response.
DC Calibration Test
(Input) * (model) - (Output) = (residual)

1. Choose manufacturer’s model to start.
2. Change model to minimize residual.
3. If modeled output matches observed output within specification, accept model.
Outcome of pole-fitting at long periods.
What these tests measure:

- Random binary test determines shape of response curve within 1%
- Step input to digitizer determines DAS sensitivity to > 0.1%
- Manufacturer provides value of sensor generator constant to within 1%
**SenSorLoc Kit:**

Calibrate with independent, portable sensor:

Nanometrics compact Trillium 120 and Taurus digitizer
Azimuth Pointing System (APS)

A unique device that produces True North Azimuth measurements from a dual GPS receiver system

The APS is a GPS-based compass that provides a True North Azimuth measurement and GPS position - all in one device.

It also has an integrated inclinometer, which allows the system to provide a complete Azimuth/Tilt solution.

The APS can aid in aligning communication antennas or satellite dishes because it’s not affected by local magnetic interference.

With an LTI laser and LTI Mapsmart Software, the APS is a powerful all-in-one total station that does not require benchmarks or backsights to produce remote GPS coordinates.

APPLICATIONS
- Laser Offset
- Antenna Alignment and Verification
- Stockpile Measurement
- Mobile Mapping
- Drill Rig Orientation
- Azimuth measurements in difficult magnetic environments
- Azimuth measurements at high latitudes
- Marine Mapping from a boat/ship

For more information visit our website or contact us at:

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Orient using Differential GPS Compass
APS used to measure orientation of Trillium
Analysis of microseisms yields relative amplitude accurate to < 1%, orientation < 1 deg
Shaketable at IGPP

- Calibrated optically within >0.5%
Shaketable results for the Compact Trillium seismometer