Application Note SP5000 and AU6000 Series Dual Axis Tilt Sensor – Settling Time and Boresight Error Graphs

SCOPE

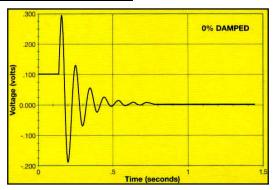
The following graphs and charts depict the typical output, and output response, of the appropriate model sensor, for 'Settling Time' and 'Boresight Error' distribution. Please note that the 'Settling Time' graphs are categorized by the damping percentage (viscosity) of the fluid, and apply to all model/series sensors, while the 'Boresight Error' graphs are model specific.

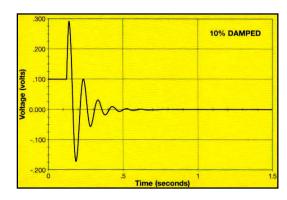
DEFINITIONS

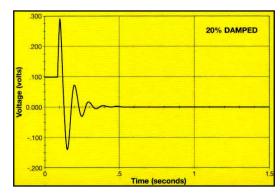
Settling Time – the amount of time it takes for the sensor output to stabilize to within 1% of its quiescent value, after a stepped movement.

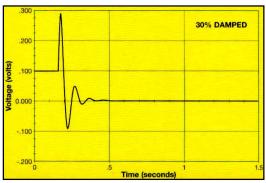
Boresight Error – the deviation of the sensor output from electrical null (zero), when the mechanical base (reference surface) is perpendicular to the gravity vector.

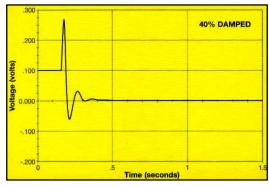
SETTLING TIME GRAPHS

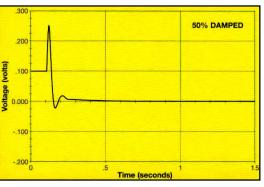












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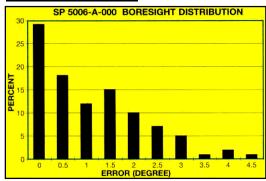
595 OLD WILLETS PATH HAUPPAUGE NY 11788 PHONE: 631 582-5600 FAX: 631 582-5671

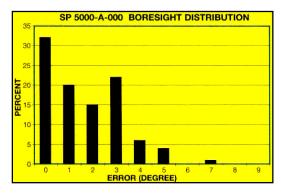


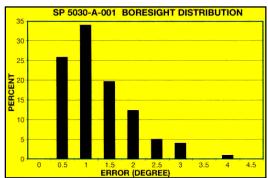


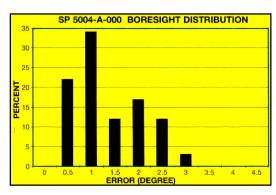
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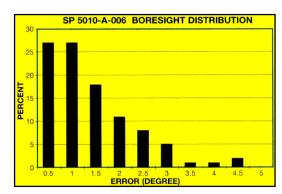
BORESIGHT ERROR

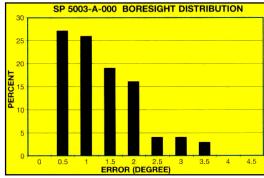


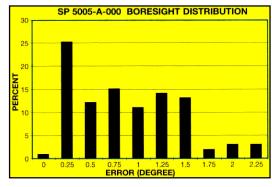














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