

Γ_{ZZ} Gravity Gradiometer for AUV



SPACE TECHNOLOGY TRANSFER

AGI is born as a Spin-Off company of the Italian Institute of Astrophysics (INAF) and its mission is to transfer the know-how from the space borne physics experiments to the Geophysics field

EXPERIENCE AND EXPERTISE

AGI has been involved in many R&D projects in Space, Geophysics and Oceanography fields.

TECHNICAL SUPPORT

AGI has labs and facilities to provide support in Electronic, Precision Engineering, Computer simulations and Informatics.

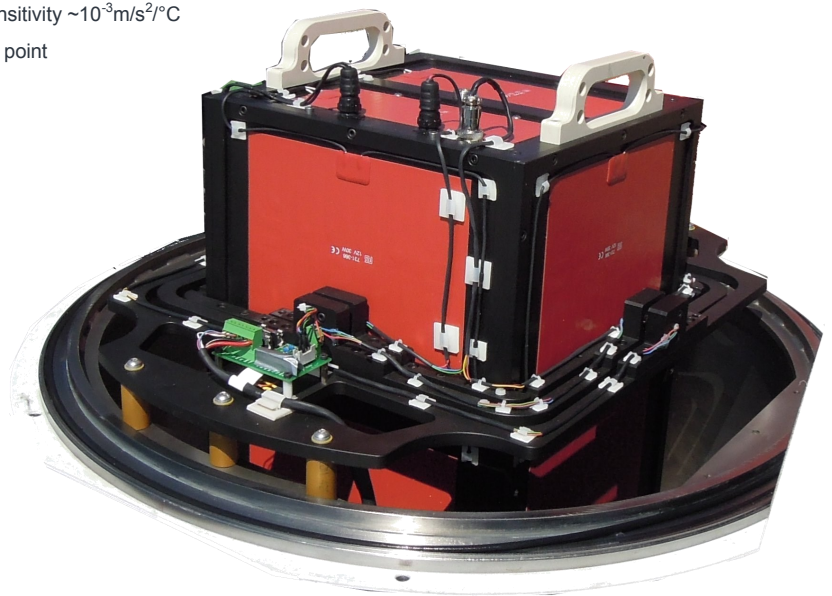
CONTACTS

For more information on any of our products or services please visit us on the Web at:

www.agi-tech.com

Main Features

- **ZZ gravity gradiometer**
 - Gravity sensors baseline ~220mm
- **High precision gravity measurements**
 - Gradiometer precision ~1 EU (1EU=10⁻⁹ s⁻²)
 - Single gravimeter precision ~2·10⁻¹⁰ m/s²
- **Large Bandwidth**
 - DC to 10Hz (10⁻⁴Hz to 10Hz for the best performance)
- **Gradiometer Common Mode Rejection Ratio**
 - Up to ~ 1000
- **Axis alignment and suspension system**
 - Passive suspension system (gimbals and pivot)
 - Gravimeters sensitive axis misalignment <10⁻⁴rad
 - Sensor Vertical misalignment <10⁻⁴rad
 - Gimbals Cut-off frequency: <8·10⁻²Hz
 - Gimbals quality factor ~5
- **Thermal Stability and Temperature Control System**
 - Gravimeter temperature sensitivity ~10⁻³m/s²/°C
 - PID with programmable set point
- **Temperature stabilization ratio ~ 1000**
- **Temperature Monitoring**
 - Embedded thermometers on sensors
- **Ready to use**
 - Embedded acquisition system
 - On board signal pre-processing
 - RS-422 NMEA standard output
 - GUI software interface for Windows
- **Patented technology**
 - Number IT0001403754, December 2010



SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support
- Guaranteed Warranty

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