The Micro-g A10 Absolute Gravimeter

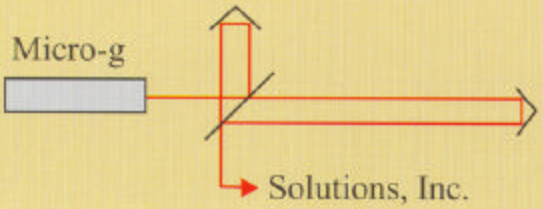
Features

- Absolute Calibration
- Outdoor Operation
- Small Size
- High Accuracy (10 μGal)
- High Precision (2-3 μGal)
- Quick Setup time (2-3 minutes)
- Quick Measurement (5 min)
- Easy to operate
- Deploys from vehicle
- 12 Volt operation
- Thermally Stabilized
- Automated Operation
- Real-time software reduction
- World-wide range (no limitation)

The A10 is the only commercial gravimeter designed for all-weather field acquisition of absolute gravity data. It is fully automated and user-friendly. The A10 can achieve 10 μGal precision in 10 minutes when operated from a field vehicle.

The A10 provides a direct measurement of the absolute value of the gravity field. It maintains absolute calibration using a stabilized laser and clock standard. This allows the A10 gravimeter to greatly reduce survey time by eliminating the need for network loop closure, drift corrections, and reference to a known stable base station.

A10 Deployed in the Field



Absolute Gravity Survey Advantages

- No Post Processing
- No Looping
- No Calibration Tables
- No Drift
- No Tares
- No Ties

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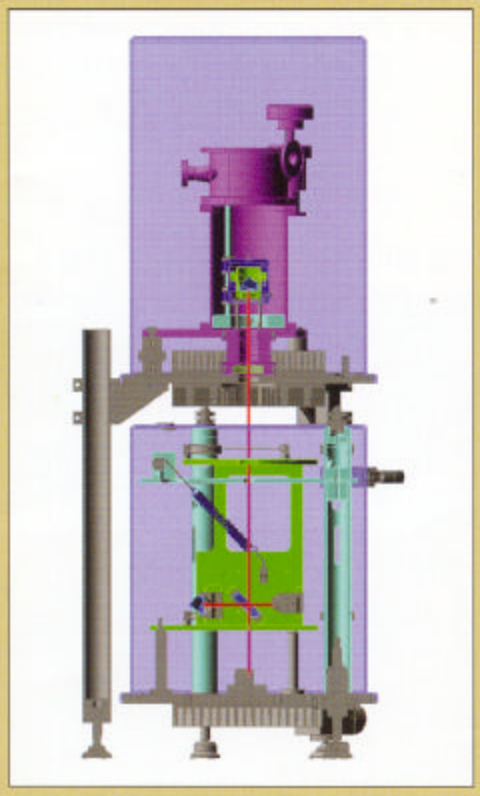
Measurement Specifications	
Accuracy	10 µGal
Precision* (10 min)	3 µGal
Operation range	World-wide
Setup Time (from Vehicle)	2-3 min
Measurement Time*	2 min for 10 µGal
* Typical for a quiet site	

A10 Schematic Diagram



"Satellite tracking in a can"

Top Component

A small inertial satellite is allowed to freefall a short distance in a vacuum. The descent of the satellite is tracked using a sophisticated laser system to directly determine the gravity field.

Bottom Component

The entire optical system is isolated from environmental seismic noise using a long period seismometer.

Physical Specifications	
Two Sensor Heads	
Dropping Chamber (top)	
Weight	19 kg
Height	55 cm
Diameter	34 cm
Foot Print Diameter	40 cm
Interferometer (bottom)	
Weight	20 kg
Height	47 cm
Diameter	34 cm
Diameter Footprint	24 cm
Main Sensor Cables (2)	
Weight	4 kg
Length	12 m
Vehicle Sensor Mount	
Weight	37 kg
Length	86 cm
Width	55 cm
Height	71 cm
Electronics Box	
Weight	17 kg
Length	54 cm
Width	40 cm
Height	27 cm
System Controller	
Weight	16 kg
Length	45 cm
Width	30 cm
Height	40 cm

Temperature	
Operating Temperature	-15˚C to 35˚C
Storage Temperature	-25˚C to 50˚C

Power	Max	Min	Avg
Input voltage	14VDC	12VDC	13VDC
Current	20A	8A	15A
Power	260W	155W	195W

*Specifications subject to change without notice.