ZLS Corporation

Excellence in High Precision Gravity Meters

Burris Gravity Meter™

- *Highest Quality*
- *Most Precise*
- *Most Rugged*
- *Lightest Metal Spring Meter*
- *Inbuilt Display*
- *Inbuilt GPS*
- *Memory 32 GB*

Applications

- *Petroleum*
- *Mineral*
- *Civil Engineering*
- *Geophysical Mapping*
- *Geotechnical*
- *Archaeological*
- *Groundwater Studies*
- *Environmental Studies*
- *Tectonic Research*
- *Volcanology*
- *Geothermal*

Burris Gravity Meter™ - Made for the Field

It took ZLS over 6 years to develop a new metal, zero-length spring land gravity meter. The Burris Gravity Meter™ is not a repackaging of old technology. It is a new meter designed specifically to take advantage of the latest advances in digital technology. The result is a meter with superior digital performance and ease of use. It is the most precise, rugged and lightest metal spring gravity meter on the market. V-Grav™ automates the Burris Gravity Meter™ allowing it to be used with microGal precision.

Each Burris Gravity Meter™ is built around a handmade, metal, zero-length spring. ZLS springs have extremely low hysteresis and drift rates. When new, ZLS springs drift approximately 1.0 mGals per month after aging and when mature, drift less than 0.3 mGals per month. Data have shown that the spring's drift rate improves with age.

The Burris Gravity Meter™ contains the sensor, electronics, computer and battery "All-In-One" easy to handle unit. Small in size, the Burris Gravity Meter™ weighs 13 pounds with a standard lithium battery. This makes the Burris Gravity Meter™ the lightest metal spring land gravity meter on the market

s Gravity Meter™ Mode

Sensor Type:	Metal Zero-Length Spring Hardened metal micrometer screw using electrostatic nulling
Reading Resolution:	0.1 microGal
Standard Deviation:	<5 microGal
Operating Range:	7000 mGal &Worldwide range (extra range not needed due to low drift)
Uncompensated Drift:	<20 microGal/Day
Range of Automatic Tilt Compensation:	<±200 arcseconds
Tares:	Typically, <5 microGal for shocks up to 20G
Automated Corrections:	Earth Tide, Instrument Tilt, Temperature
Data Output Rates:	Single Observation: 5, 10, 15 second (user selectable) Continuous Observation: >1 second (user selectable)
Residual Long Term Drift	Null (Drift correction not required)
GPS	Inbuilt GPS
GPS Accuracy:	2.5 meters typical accuracy
Touch-free Operation:	Handheld Android Tablet with Bluetooth
Battery Capacity:	Single 6.8 Ah (10.8V) Rechargeable Lithium Ion Smart Battery. 16 hrs. standby / 14 hrs. operating (at 23°C)
Power Consumption:	4.07 W @ 25°C
Display & Keypad	Inbuilt Touch Screen, Clear vision day Light Display & Controller with Touch sensitive keys
Memory	Inbuilt memory 4 GB and Expandable
Digital Data Output:	USB, Bluetooth
Dimensions:	7.50 X 10.50 X 12.00 in. (19.05 X 26.67 X 30.50 cm)
Weight:	12.75 ± 1.00 lbs. (5.78 ± 0.45 kg)
Shipping Weight and Dimensions:	Standard Shipping Box: 24.00 X 24.00 X 24.00 in. (60.96 X 60.96 X 60.96 cm) @ 40 lbs. (18.14 kg) Optional Ruggedized Transit Case: 26.00 X 27.00 X 26.00 in (66.04 X 68.58 X 66.04 cm) @ 70.50 lbs. (31.98 kg)

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ZLS Gravity Meters are Hand Crafted in Austin, Texas, USA