

## G-822A Data Sheet

The G-822A is designed for use in airborne survey applications where a combination of high sensitivity and rapid sampling of the Earth's magnetic field are required. The system consists of a caesium-vapour sensor with its associated cables and driver electronic package, and a separate high resolution counter.



*G-822. Image courtesy of Geometrics Inc*

The G-822A operates on 24-32 VDC power, receiving power and passing its analogue output over the same BNC coaxial connection.

The G-822A sensor incorporates advanced design features to ensure excellent performance with respect to instrument noise, heading error, and absolute accuracy. The G-822A also provides automatic hemisphere switching to provide superior data quality in equatorial regions. The sensor/electronics package is splash-proof, temperature controlled and delivers full performance under extreme operating conditions.

The G-822A is supplied for integration into airborne and land vehicle systems whereby 3rd party analogue to digital converters or magnetic compensation systems are utilised. If the sensors are to be used independently then the G-823 or G-862 offer an internal analogue to digital electronics for direct RS232 .

### Product Dimensions

| Physical          | Dimensions (L x W x H)         | Weight |
|-------------------|--------------------------------|--------|
| (instrument only) | 15cm x 6cm x 6cm (sensor only) | 3kg    |

### Technical Specifications

|                         |  |
|-------------------------|--|
| <b>Sesnor:</b>          | Self-oscillating split-beam Caesium Vapour (non-radioactive).  |
| <b>Operating Range:</b> | 20,000 to 100,000 nT.  |
| <b>Operating Zones:</b> | The earth's field vector should be at an angle greater than 6° from the sensor's equator and greater than 6° away from the sensor's long axis. Automatic |

hemisphere switching.

**Sensitivity:**

## Videos

G-822A Airborne Magnetometer

[https://www.youtube.com/watch?v=iBtBow\\_AA8E](https://www.youtube.com/watch?v=iBtBow_AA8E)