

Transverse Gradiometer (TVG) Frame

Geomatrix Earth Science Ltd are proud to offer a robust, stable marine magnetometer frame for acquiring transverse gradient data as part of unexploded ordnance mitigation or pipe line tracing. From our experience renting Geometrics G-882 Caesium vapour marine magnetometers, and the significant feedback we have received from our customers, we have independently developed a TVG frame which simplifies the mobilisation and acquisition of transverse gradient data.

FEATURES:



The Geomatrix TVG frame is designed to support the standard G-882, with or without altimeter.

The long A-frame arms permit wire line clevis to be connected directly to the frame removing the need for a soft umbilical cable. Trials have shown that there is minimal egress of noise induced into the data, $\leq \pm 0.2nT$.

The tow point offers attachments for the Geometrics telemetry system, or positioning beacons, increasing the operators confidence in determining the layback and position of the TVG frame. Which is particularly important when deploying two frames simultaneously.

In addition by integrating the wet end telemetry electronics onto the TVG frame the deployment and retrieval of the system becomes considerably simpler and reduces the risk of damaging the instrumentation. A video showing the recovery of the TVG frame can be seen at <http://www.geomatrix.co.uk/g-882.php>.



TECHNICAL SPECIFICATIONS:

Traverse gradient: 1.5m

Layback ratio: 10:1

Inline drag on the TVG frame:

4 knots = 40kg

8 knots = 70kg

Clevis (tow point) to sensor distance: $\approx 3.3m$

Maximum tow cable length:

300m soft tow cable with 30V power supply

6km steel tow cable with Geometrics telemetry system.



WEIGHTS & DIMENTIONS

Weight: 40kg

Shipping dimensions: 1.83m \times 0.51m \times 0.16m