Horizon-505

High-accuracy MRU

Horizon-505

Horizon-505 MRU

The Vectory Sensor Systems Horizon-505 is a high accuracy, general-purpose Motion Reference Unit (MRU) providing accurate roll, pitch and heave measurements for singlebeam and shallow water multibeam systems. The MRU includes serial RS232/485 output as well as optional Ethernet.

High Accuracy

The Horizon-505 MRU uses the very latest in MEMS technology as the core sensing elements. Low-noise gyroscopes ensure that roll and pitch outputs have excellent accuracy. This, coupled with very high-stability accelerometers gives a very stable heave performance.

Phase free heave

The phase-free heave output gives a heave measurement free of phase shifts induced by real-time heave filtering and provides both improved heave response and lower settling times after turns. The phase-free heave output can also be used as a delayed QC of real-time heave.

Attractive price

With Vectory Sensor Systems proprietary inertial sensor fusion algorithm, the gyros and accelerometer data is fused in the optimal way, giving excellent roll, pitch and heave performance at a very affordable price.

Several output formats possible

The Horizon-505 MRU supports RS232, RS485 and RS422 outputs as standard. Feel free to contact us, using the form on the right, if you require another output format, such as Ethernet. We would be happy to implement your interface requirements in our sensor.

Vectory Sensor Systems

Web: www.vectory.com
Email: info@vectory.com

Horizon-505 MRU

Accuracy:
- Roll and pitch: 0.05 degrees
- Heave: 5 cm / 5%

Ranges:
- Rotation rate: +/- 200 deg/s
- Acceleration: +/- 3 g

Voltages:
- Input: 9 - 60VDC (<2W)

Connectivity:
- 2 Serial ports (RS232/422/485 selectable)
- Ethernet optional

Housing size:
- 80x62mm
- IP68 and 3000m depth rated subsea housing
- Weight: <0.5kg

Output strings:
- PVEC-URAD, TSS1, MiniTilt, custom.

Specifications subject to change without further notice

E-mail:
sales@vectory.com

Telephone:
+45 71 37 54 22