Horizon

Horizon-H Heave sensor

Vectory
sensor systems

Vectory Sensor Systems AS
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Horizon-H Heave Sensor

The Horizon H is developed for the purpose of heave compensation for winches, cranes and echosounders. One very high accuracy navigation grade accelerometer is used for the vertical axis providing very good Real-Time heave performance.

The Horizon-H use the very latest in MEMS technology, coupled with Vector Sensor Systems proprietary inertial sensor fusion algorithm. This gives a heave performance comparable to the highest end motion sensors, at a price-tag an order of magnitude lower. The sensors includes serial RS232/485 as well as optional ethernet and analog output.

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.

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Usage scenarios

- Single and multibeam echosounder motion compensation
- Active heave compensation
- Wave measurements
- Ship motion monitoring

High performance

- State of the art MEMS technology
- Proprietary Vectory Sensor Systems sensor fusion algorithm
- Powerful processing on-board

High reliability

- Impact-resistant algorithms
- Vibration-rejecting sensors

Small and low power

- Less than 3 W power consumption
- Less than 0.5kg
- Height 80mm, Ø 62mm

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Accuracy
- Heave: 5cm/5% (delayed 1cm/1%)

Ranges
- Rotation rate: +/- 150deg/sec
- Acceleration: +/- 5g
- Temperature: -20 to 70 deg C storage, 0 to 55 deg C operating

Accepted inputs:
- For heading compensation: NMEA 0183
- For velocity compensation: VTG

Power:
- Voltage: 10-36V DC (<3W)

Connectivity:
- 1 serial port (RS232/485/422)

Optional connectivity:
- Additional serial ports
- Ethernet
- Analog output

Housing:
- Housing size is 80x62mm
- Optional 3000m subsea housing
- Weight: <0.5kg
- Fixed mouting orientation

Specifications subject to change without further notice

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