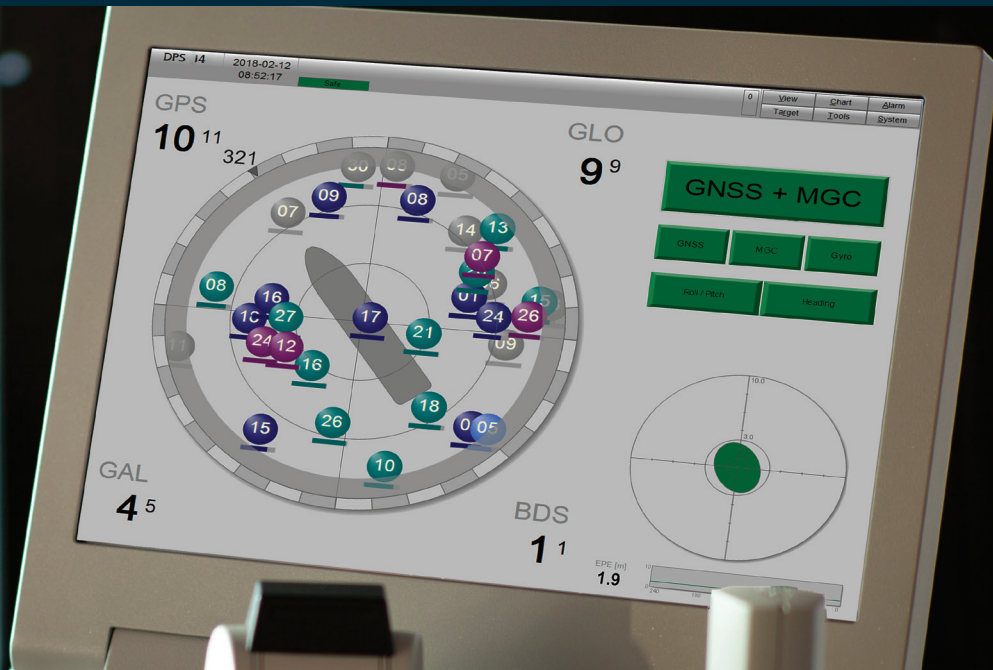


DPS i4



KONGSBERG



SENSOR FUSED GNSS SOLUTION FOR DYNAMIC POSITIONING

By the introduction of the DPS i-series, KONGSBERG fuses decades of experience within GNSS and inertial technology in order to create a fully scalable and future-proof reference solution with emphasis on operational efficiency for DP applications.

Sensors teaming up

An unmatched integration of the latest within multi GNSS and KONGSBERG's unique motion gyro compass (MGC™) facilitate the possibility to operate with no additional augmentation services without compromising on DP performance. The DPS i-series is still fully prepared to utilize differential corrections and SBAS services when required.

DPS i4 utilizes data from all available GNSS constellations including GPS, GLONASS, Galileo and Beidou.

Designed for robust performance

The integration ensures a continuous position solution by bridging gaps in the GNSS reception and increasing position stability in periods with limited GNSS availability due to masking, scintillation and interference. GNSS and INS are perfectly matched as they overcome each others limitations. Using both systems is superior to using either system alone. RAIM (Receiver Autonomous Integrity Monitoring) extended by data from the INS provides ultimate reliability of the position and velocity data under difficult GNSS conditions.

Multi-use of sensor

By using the MGC as the inertial sensor, a high-quality WheelMark gyro compass becomes a part of the solution. In addition, MGC can serve other on-board systems such as navigation equipment and other systems that require attitude data.

Increased operational efficiency

Inertial technology combined with the latest multi-constellation GNSS technology enables a cost efficient and reliable position reference solution. No regular maintenance, calibration or additional operational costs are required.

Scalable solution

The flexible design of the DPS i-series ensures a scalable and expandable reference solution that can adapt to the specific requirements of any vessel. For the more demanding applications, a combination of multiple DPS systems and MGC/MRU sensors will enable precise heading determination world wide and provide spoofing detection capabilities. The DPS i-series may utilize existing or dedicated MGC or MRU sensors for the integration.

Active decision support

The DPS i-series has an intuitive and easy-to-use graphical user interface developed in close co-operation with experienced DP operators. The HMI (Human-Machine Interface) enables the operators to assess the quality of their positioning quickly and effectively during operation.

Remote service

The DPS i-series is ready for K-IMS remote services for operational support and troubleshooting. Cases that previously required a visit from a service engineer, may now be resolved remotely.

