DPS 112 is a robust and reliable DGNSS (DGPS/GLONASS) sensor suitable for a wide range of marine applications. It utilises the Seastar G2 service capable of world wide decimeter accuracy.

**A member of the DPS Family**
The Kongsberg Seatex award-winning DPS product line is well-proven and in use by professional marine and offshore users worldwide.

The DPS product series is developed and suitable for all applications in need for a confident position solution when operating in safety-critical environments.

**Applications**
DPS 112 is a cost efficient DGNSS solution designed for users where availability and reliability are paramount, with a meter-level position accuracy and the possibility to have decimeter accuracy with the Fugro Seastar G2 service.

DPS 112 has a built-in display for easy system configuration and status monitoring.

An external display unit with an intuitive and easy-to-use graphical interface tailored for DP operations is available, forming an ideal solution for workboats and platform support vessels.

**GPS and GLONASS**
One of the primary advantages of a combined GPS/GLONASS system is the increased satellite coverage. The addition of GLONASS increases system availability and the performance of DPS 112 is greatly enhanced compared to traditional DGPS systems when operating in highly obstructed environments and under challenging signal tracking conditions.

**Seastar G2 service**
The DPS 112 uses regional SBAS services such as WAAS, EGNOS, GAGAN and MSAS, and local DGPS services such as IALA DGPS.

In addition the DPS 112 can utilise the Fugro Seastar G2 service, delivered by Fugro’s own network of dual system reference stations. This service provides consistent decimetre level accuracy positioning with ‘orbit and clock’ corrections with a global validity.
### FEATURES
- Combined GPS L1/L2, GLONASS L1/L2 and SBAS receiver
- IALA beacon capability
- Built-in L-band receiver with Fugro Seastar G2 capability
- Optional standard RTCM correction input
- Easy software updates via USB
- Ethernet interface
- Embedded keypad and display
- Configurable output for external interfaces
- External display unit (optional)

### TECHNICAL SPECIFICATIONS
**DPS 112**

#### PERFORMANCE
- **Seastar G2 service**: 10 cm, 95 % CEP
- **DGPS/GLONASS accuracy**: < 1 m, 95 % CEP
- **SBAS accuracy**: < 1 m, 95 % CEP
- **Velocity accuracy**: < 0.05 m/s, 95 % CEP
- **Output rate**: 1 Hz

#### INTERFACES
- **Serial ports**: 3 serial ports (2 NMEA output, 1 RTCM input), RS-232 or RS-422 (galvanically isolated)
- **Ethernet/LAN**: 1
- **USB**: 3

#### DATA OUTPUTS
- **Message formats**: NMEA 0183 v. 3.0
- **Message types**: GGA, GLL, GSA, GSV, VER, VTG, ZDA

#### DATA INPUTS
- **DGPS/GLONASS corrections**: RTCM-SC104 ver. 2.2, 2.3, Seastar XP/XP2/G2/G2+
- **DPS 112 unit**: 100 - 240 V AC 50/60 Hz, max. 60 W
- **GNSS antenna**: 5 V DC from processing unit
- **IALA antenna**: 10.2 V DC from processing unit
- **Spotbeam antenna**: 12 V DC from processing unit

### WEIGHT AND DIMENSIONS
- **DPS 112 unit**: 5.8 kg, 89 mm x 444 mm x 357 mm
- **GNSS antenna**: 0.5 kg, 69 mm x 185 mm
- **IALA antenna**: 0.78 kg, 870 mm
- **Spotbeam antenna**: 1.4 kg, 96 mm x 150 mm

### POWER SPECIFICATIONS
- **DPS 112 unit**: 100 - 240 V AC 50/60 Hz, max 60 W
- **GNSS antenna**: 5 V DC from processing unit
- **IALA antenna**: 10.2 V DC from processing unit
- **Spotbeam antenna**: 12 V DC from processing unit

### ENVIRONMENTAL SPECIFICATIONS
- **Operating temperature range**
  - **DPS 112 unit**: -15 to +55 °C
  - **GNSS antenna**: -40 to +85 °C
  - **IALA antenna**: -55 to +70 °C
  - **Spotbeam antenna**: -30 to +70 °C
  - *) Recommended +5 to +40 °C
- **Humidity**
  - **DPS 112 unit**: Max. 95 % non-condensing
  - **GNSS antenna**: Hermetically sealed
  - **IALA antenna**: Hermetically sealed
  - **Spotbeam antenna**: Hermetically sealed
- **Mechanical**
  - **Vibration**: IEC 60945/EN 60945
- **Electromagnetic compatibility**
  - **Compliance to EN 60945**
  - **Immunity/emission**: IEC 60945/EN 60945

### PRODUCT SAFETY
- **Compliance to LVD, standard used**: IEC 60950-1/EN 60950-1

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Specifications subject to change without any further notice.

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