



Seastar® 9205 GNSS Receiver



The Seastar 9205 GNSS receiver provides users with access to the latest developments in high performance Differential Global Satellite Navigation System (DGNSS) positioning.

All in View Receiver

The Seastar® 9205 GNSS receiver is a multi frequency (L1/L2/L5/E1/E5) receiver that incorporates GPS, GLONASS and Galileo reception capability. In addition it tracks the Fugro L-Band satellite broadcast of DGNSS corrections. As a backup it can receive the DGNSS corrections via Internet.

As well as providing increased accuracy, multi frequency operation means that the Seastar® 9205 GNSS receiver is well equipped to cope with the effect of the forecast increase in solar activity and interference.

Used in conjunction with the Seastar® G2 service, it increases the number of satellites available by accessing the GLONASS satellite constellation (and future Galileo) in addition to the GPS constellation. More satellites means less likelihood of shadowing when operating close to rigs, platforms and other obstructions.

High Performance Service Compatibility

The Seastar® 9205 GNSS receiver can be subscribed to the various DGNSS services offered by Fugro such as HP, XP and the integrated GPS/GLONASS G2 service.

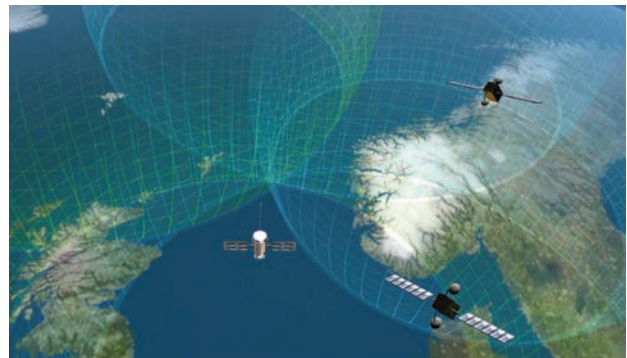
- HP: GPS network solution
- XP: GPS orbit and clock solution
- G2: Composite GPS/GLONASS orbit and clock solution

All the above solutions are dual frequency carrier phase based to achieve decimetre level accuracy.

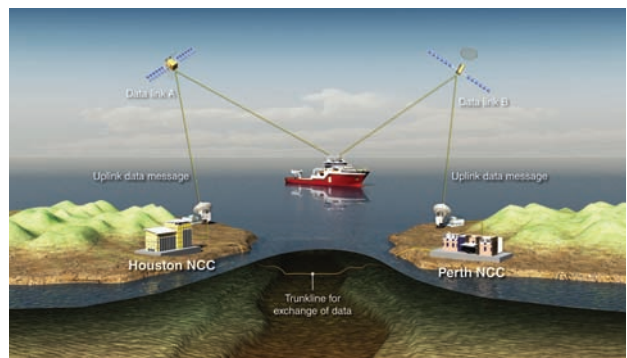
The receiver can be monitored and configured via the front panel display and keypad, or via a web interface.



The G2 Operations Centre in Oslo



A mix of navigation satellites can be used

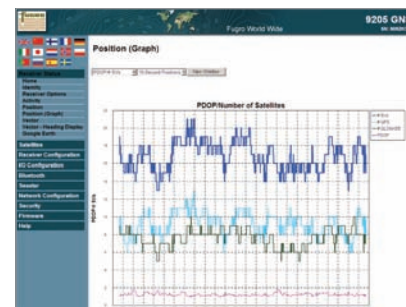


Dual satellite broadcast data links in all ocean regions



Seastar[®] 9205 GNSS Receiver

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Web interface



Seastar[®] 9205 GNSS back panel

MAIN FEATURES

- L1/L2 GPS receiver
- L1/L2 GLONASS receiver
- E1/E5 Galileo receiver
- L-BAND DGNSS receiver
- Corrections via internet
- Display and keypad
- Web interface

ANTENNA OPTIONS

- GA 810 – GNSS antenna
- AD 492 – narrow band filter, interference resistant antenna
- AD 493 – high performance L-band antenna
- Zephyr Model 2 rugged antenna

TECHNICAL SPECIFICATIONS

Keypad and Display

- Invertable VFD display 16 characters by 2 rows
- Escape and enter key for menu navigation
- 4 arrow keys for option scroll and data entry

Channels

- 220-channels
- GPS - L1 C/A, L2C code
- GPS - L1/L2/L2C full cycle carrier
- Galileo E1/E5
- GLONASS - L1/L2 full cycle carrier
- SBAS (WAAS/EGNOS/MSAS)
- Fugro L-Band service

Position Accuracy Seastar G2/XP/HP

- Horizontal: 10 cm (95%)
- Vertical: 15 cm (95%)

Communications

- Lemo (serial): 3 wire RS232
- Modem 1 serial: full 9-wire RS232
- Modem 2 serial: full 3-wire RS232
- 1 PPS
- Ethernet multiport adapter

Data outputs

- NMEA messages: GGA; GST, GSA, VTG, ZDA, GNS, GBS, RMC

Power Requirements

- 9.5 V DC to 28 V DC, 30W at 24 V DC
- AC input via external AC/DC PSU or Isolating Data and Power Unit (IPDU)

Temperature

- Operating: -40 to +65 °C (-40 to +149 °F)
- Storage: -40 to +80 °C (-40 to +176 °F)

Dimensions (L x W x D)

- 24 cm (9.4 in) x 12 cm (4.7 in) x 5 cm (1.9 in)

Weight

- 1.55 Kg (3.42 lb)

Approval

- IEC 61108 GNSS performance
- IEC 60945 environmental (IPDU required)
- IEC 61162 interface output

Specifications subject to change without further notice

