

SeaSTAR 9200-G2 Receiver



The SeaSTAR 9200-G2 receiver provides users with access to the latest developments in high performance Differential Global Satellite Navigation System (DGNSS) positioning.

The SeaSTAR 9200-G2 receiver is a dual frequency (L1/L2) receiver that incorporates both GPS and GLONASS 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, dual frequency operation means that the SeaSTAR 9200-G2 is well equipped to cope with the effect of the forecast increase in solar activity and interference.

Use in conjunction with the SeaSTAR G2 service, increases the number of satellites available by accessing the GLONASS satellite constellation in addition to the GPS constellation. More satellites means less likelihood of shadowing when operating close to rigs, platforms and other obstructions.

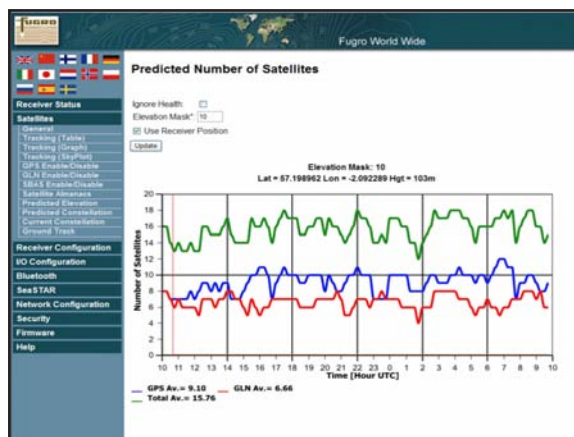
The SeaSTAR 9200-G2 receiver can be subscribed to the various DGNSS services offered by Fugro SeaSTAR such as HP, XP and the integrated GPS/GLONASS G2 service.

- 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.



Web Interface



9200-G2 back panel

MAIN FEATURES

- L1/L2 GPS receiver
- L1/L2 GLONASS receiver
- L-BAND DGNSS receiver
- Corrections via Internet
- Display and keypad
- Web Interface

ANTENNA OPTIONS

AD 491 – narrow band filter, interference resistant antenna

Zephyr Model 2 rugged antenna

TECHNICAL SPECIFICATIONS

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

Channels

72-channels
GPS - L1 C/A code
GPS - L1/L2/L2C Full cycle Carrier
GLONASS - L1/L2 Full Cycle Carrier.
SBAS (WAAS/EGNOS/MSAS)
Fugro L-Band service

Position accuracy

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

XP
Horizontal : 15 cm (95%)
Vertical : 20 cm (95%)

G2
Horizontal : 15 cm (95%)
Vertical : 20 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

Power Requirements

9.5 V DC to 28 V DC, 4.5 W at 18 V DC
Optional AC/DC PSU

Temperature

Operating: -40 oC to + 65 oC (-40 oF to +149 oF)
Storage: -40 oC to + 80 oC (-40 oF to +176 oF)

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)

Further information

Complete technical information on a specific model type or peripheral hardware can be obtained from Fugro Seastar AS:



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