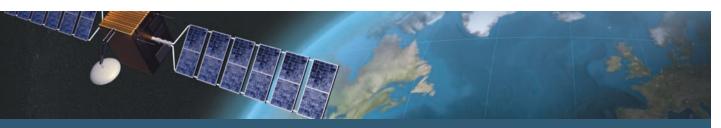
Marinestar® 9205 GNSS Receiver





The Marinestar® 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 Marinestar® 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 Marinestar® 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 Marinestar® GNSS 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 Marinestar® 9205 GNSS receiver can be subscribed to the various DGNSS services offered by Fugro such as Marinestar® GPS and the integrated Marinestar GNSS service.

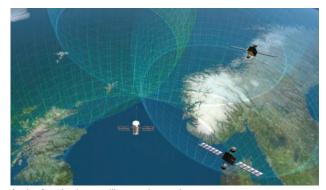
- · Marinestar® GPS: GPS orbit and clock solution
- Marinestar® GNSS: Composite GPS/GLONASS orbit and clock solution

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 Marinestar® GNSS Operations Centre in Oslo



A mix of navigation satellites can be used



Dual satellite broadcast data links in all ocean regions



Marinestar® 9205 GNSS Receiver



Marinestar® 9205 GNSS Receiver



Marinestar® 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 Marinestar GPS/GNSS

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

GGA; GST, GSA, VTG, NMEA messages: 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

Web interface

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)

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

Fugro Satellite Positioning AS

Hoffsveien 1C, P.O.Box 490, Skøyen

N-0213 Oslo, Norway

Telephone: +47 21 50 14 00

Fax: +47 21 50 14 01

Email: marinestar@fugro.com