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 SKY RECEIVER
The Seastar™ 9205 GNSS receiver is a multi frequency (L1/ L2/L5/E1/E5/B1/B2) receiver that incorporates GPS, GLONASS, BeiDou 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. Used in conjunction with the Seastar™ G4 service, it increases the number of satellites available by accessing the BeiDou 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 G2, G4, XP and XP2.

- G2: GPS and GLONASS orbit and clock solution
- G4: Composite GPS, GLONASS, BeiDou and Galileo orbit and clock solution
- XP: GPS orbit and clock solution from external provider.
- XP2: GPS and GLONASS orbit and clock solution from external provider.

These 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.

A mix of satellites can be used.
MAIN FEATURES
- L1/L2 GPS receiver
- L1/L2 GLONASS receiver
- E1/E5 Galileo receiver
- B1/B2 BeiDou receiver
- L-BAND DGNSS receiver
- Corrections via internet (NTrip)
- Keypad and Web interface

ANTENNA OPTIONS
- GA 830 – GNSS antenna
- AD 492 – narrow band filter, interference resistant 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 C/A, L2C full cycle carrier
- Galileo E1/E5
- GLONASS - L1/L2 full cycle carrier
- BeiDou B1, B2
- SBAS (WAAS/EGNOS/MSAS)
- Fugro L-Band Service

Position Accuracy Seastar G2/G4/XP/XP2
- Horizontal: 10 cm (95%)
- Vertical: 15 cm (95%)

Communications
- Lemo (serial 1): 3 wire RS232
- Modem 1 (serial 2): full 9 wire RS232
- Modem 2 (serial 3): 3 wire RS232
- 1PPS (through suitable multiport adapter cable)
- Ethernet multiport adapter:
  - Network protocols: HTTP, NTP, TCP/IP, UDP, NTRIP (v1 and v2)
  - DNS, uPnP, DDNS, Email notifications

Power Requirements
- 10.5 V DC to 28 V DC,
- Power consumption 6W typical, 18W peak (battery charging)
- 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 (LxWxD)
- 24 cm (9.4 in) x 12 cm (4.7 in) x 5 cm (1.9 in) incl. connectors

Weight
- 1.55 Kg (3.42 lb) receiver with internal battery

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

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