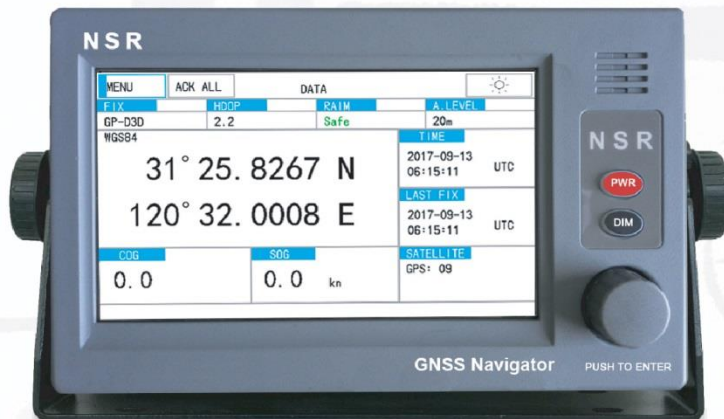


NGR-1000/NGR-3000

MARINE GNSS NAVIGATOR

NSR's new generation of IMO GPS:

- 7 inch color LCD
- Touch screen operation
- Port for INS connection
- Type approval with MED, CCS



Comprehensive navigation data displays.

Storage for up to 999 waypoints and 30 routes.

7 inch, color LCD, touch screen operation with adjustable contrast and brilliance.

Dedicate port for INS connection.

2 GPS data outputs.

A DGPS beacon receiver (external) may be connected to the NGR-3000 to add DGPS function.

Meets the requirements of relative IMO and IEC regulation & standards, including IMO MSC112 (73), IEC61108-1, etc.



SPECIFICATIONS

● GPS RECEIVER

- Receiving System: 50 channels parallel (GPS)
- Rx Frequency: 1575.42 MHz
- Rx Code: C/A code
- Position Accuracy: Approx. 10m (GPS), 95% of the time, horizontal dilution of precision (HDOP) ≤ 4
- Tracking Velocity: 999 kts
- Position-fixing Time: Warm start: 15 seconds, Cold start: 120 seconds
- Position Update Interval: 1 second

● DISPLAY SECTION

- Display: 7 inch, color LCD, touch screen operation
- Fix Mode : GPS
- Alerts: Lost of Position, HDOP>4, DGPS lost

● INPUT/OUTPUT DATA

- Output Data: RS422, totally 2 ports, Baud Rate 4800/9600/19200 bps
GNS, GBS, GGA, RMC, VTG, ZDA, DTM
- Sentences: INS IN/INS OUT, RS422
- INS connection: DGPS RTCM SC-104
- Input Data: 12-24 VDC, 0.25-0.50 A

● POWER SUPPLY

● ENVIRONMENT CONDITION

- Ambient Temperature: Antenna Unit: -25°C to +70°C
- Main Unit: -15°C to +55°C
- Relative Humidity: 95% at 40°C
- Water Proofing: Antenna Unit: IEC60529 IPX6
- Main Unit: IEC60529 IP22

● OTHERS

- Size: 145 (H) × 264 (W) × 80 (D) mm
- Weight: abt 1.25 kg (main unit)

EQUIPMENT LIST

● STANDARD

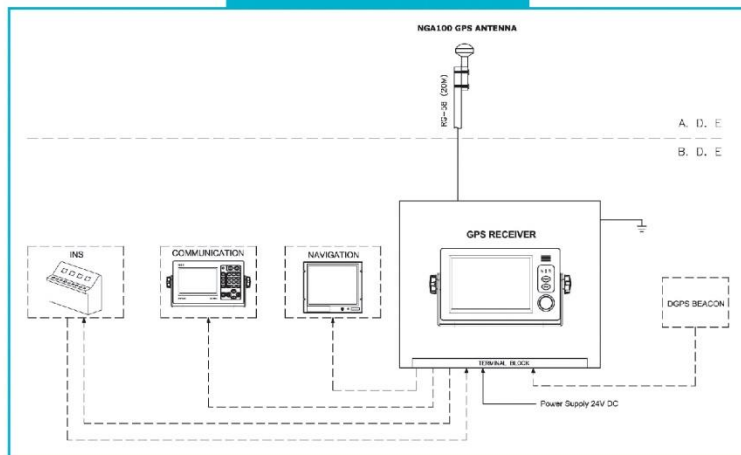
- GPS Navigator 1 pc
- GPS Antenna with Cable 1 pc
- Installation Materials 1 set

● OPTIONS

- DGPS Beacon 1 pc
- Flush Mount Brackets 1 set
- NMEA Distribution Box 1 pc
- AC/DC PSU 1 pc



SYSTEM DIAGRAM



SIZE DIMENSION

