High performance and accuracy, compact and easy-to-operate. With all these features, the KGP-913/913D is ideal for pleasure craft and fishing boats.

FEATURES

• Differential GPS (KGP-913D only)
  Thanks to a built-in beacon receiver, it can be used as a high-accuracy differential GPS navigator. Beacon stations all over the world are pre-installed (in countries where differential beacons are located).

• Easy-to-operate
  "Fix anywhere" capability automatically fixes your position at turn on. A user-friendly menu makes operation easy from the very start.

• Easy-to-see display
  An easy-to-see LCD with backlight, displays various information for navigation. For current position indication, Loran C LOPs are also available for those who have been using a Loran C-type navigator.

• Graphic display
  Two types of graphic displays lead you to your destination.

• Navigational data
  Displays of lat/long, boat speed and heading, average speed, average bearing, passed time, distance/bearing to waypoint, cross track error, course deviation, time to go, total time/distance to destination, DOP value, present date/time (UTC or LTC), GPS satellite status, DGPS status and MOB indication are all selectable.

• Position memory
  Two hundred waypoints (which can be named or commented) and 200 event memories for storing the position of wrecks, reefs and fishing spots with one key press.

• Route navigation
  A total of 400 stored waypoints can be used to create up to 20 routes. A route may be taken in forward or reverse order.

• Cross track error and course deviation
  In navigation mode, indication of track error to the destination with distance (cross track error) and angle (course deviation) in addition to speed and bearing are shown.

• Alarm capability
  Audible and visual alarms of cross track error, course deviation, waypoint proximity, anchor watch drift and DGPS are available for power saving and hazard prevention.

• MOB (Man Over Board) display
  In case of emergency, the Man Over Board function automatically stores the position where the emergency has occurred, providing continuous update of distance and bearing to that position, making recovery quick and easy.

• Flexible data output
  NMEA-0183 output for interfacing with other devices onboard.

• Plotter function
  Your vessel’s track history (up to 2,000 points) and course line to the destination are simultaneously displayed.
**SPECIFICATIONS**

**GPS receiver section (KGP-913/913D common)**
- Receiving frequency: 1575.42 MHz ± 1 MHz
- Receiving channel: L1 (C/A code, P code) parallel/serial
- Receiving code: C/A code
- Sensitivity: better than -130 dBm (elevation angle: 5° or over)
- Tracking speed: 200 knots maximum
- Accuracy: Position error: MMSE (DoD OFF), 100 m 2DRMS (DGPS ON)

**Note:** Accuracy is subject to change in accordance with DoD civil GPS user policy.

**Beacon receiver section (KGP-913D only)**
- Receiving frequency: 303.5 to 325.0 kHz
- Channel separation: 300 Hz
- Modulation: MSK: 50, 100, 200 bit/second
- Sensitivity: 2.5 µV/m (at BA-02)
- Signal detection (SN): Better than 6 dB
- Dynamic range: 82 dB

**Display section (KGP-913/913D common)**
- Display: LQW with backlight (128 x 64 dotts, effective picture area: 85.71 x 54.35 mm)
- Dynamic range: 92 dB
- Modulation: MSK: 50, 100, 200 bit/second
- Frequency: 1575.42 MHz

**Options (KGP-913D only)**
- Receiving antenna: RA-14 2.45 m, whip 0.3 kg (0.67 lb)
- Antenna extension cable: CW-826-0.5M With N-P/BNC connectors For BA-03S/GBA-01S 0.5 m (1 5/8 ft)
- Antenna cable: Connected to BA-02/BNC connector 10 m (32 13/16 ft)
- Power Rectifier: PS-003A With two 5A fuses 2.8 kg (6.2 lb)
- AC power cable: VV-2D8-3M Both end plain for power rectifier 3 m (9 13/16 ft)
- Remote display: UR-7 With power and connecting cable 1.3 kg (2.9 lb)

**Connections**
- Antenna unit: KGP-913/913D used only
- Antenna cable: Connected to BA-03/BNC connector 10 m (32 13/16 ft)
- DGPS beacon receiver: Connected to KGP-913D only

**EQUIPMENT LIST**

**Standard Equipment List (KGP-913D only)**
- Display unit: With vinyl cover and mounting bracket
- Standard Equipment List (KGP-913/913D common)
- Receiving antenna: RA-14 2.45 m, whip 0.3 kg (0.67 lb)
- Antenna extension cable: CW-826-0.5M With N-P/BNC connectors For BA-03S/GBA-01S 0.5 m (1 5/8 ft)
- Antenna cable: Connected to BA-02/BNC connector 10 m (32 13/16 ft)
- DGPS beacon receiver: Connected to KGP-913D only

**Options**
- Remote display: UR-7 With power and connecting cable
- Power Rectifier: PS-003A With two 5A fuses
- AC power cable: VV-2D8-3M Both end plain for power rectifier
- Remote display: UR-7

**Display section (KGP-913D only)**
- Display: LQW with backlight (128 x 64 dotts, effective picture area: 85.71 x 54.35 mm)
- Display mode: NAV1, NAV2, NAV3, PLOT, MOB (Man Over Board), MENU
- Display LCD with backlight (128 x 64 dotts, effective picture area: 85.71 x 54.35 mm)
- Dynamic range: 92 dB

**CONNECTIONS**
- Antenna unit: KGP-913/913D used only
- Antenna cable: Connected to BA-03/BNC connector 10 m (32 13/16 ft)
- DGPS beacon receiver: Connected to KGP-913D only

**R-FIELD**
- Frequency: 303.5 to 325.0 kHz
- Modulation: MSK: 50, 100, 200 bit/second
- Sensitivity: 2.5 µV/m (at BA-02)
- Signal detection (SN): Better than 6 dB
- Dynamic range: 82 dB

**Beacon station data**
- User entry (20 stations), beacon almanac data (10 stations), ROM
- Differential: ON, OFF, AUTO
- Memory protection: By built-in battery
- Data out interval: 1 second (CIF, SHIPMATE, and NMEA1), 3 seconds (NMEA2), and (KGP-913: NMEA-0183 only) 2 seconds
- Route memory: 20 routes (Max. 400 waypoints) reverse trail possible
- Waypoint memory: 200 points (usable as waypoint)
- Display range: 0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 nm (sm, km)
- Position data display: Latitude/longitude in increments of 0.0001 minute, converted Loran into LOP, converted Loran A LOP or converted Decca LOP
- Display mode: NAV1, NAV2, NAV3, PLOT, MOB (Man Over Board), MENU
- Display LCD with backlight (128 x 64 dotts, effective picture area: 85.71 x 54.35 mm)
- Dynamic range: 92 dB

**Modulation**
- MSK: 50, 100, 200 bit/second
- Frequency: 1575.42 MHz
- Receiving frequency: 283.5 to 325.0 kHz
- Receiving code: C/A code
- Receiving channel: Digital 11-channel parallel/sequential
- Receiving frequency: 1575.42 MHz
- Receiving channel: Digital 11-channel parallel/sequential
- Power Rectifier: PS-003A With two 5A fuses
- AC power cable: VV-2D8-3M Both end plain for power rectifier
- Remote display: UR-7

**Weight**
- Weight: 0.19 kg (0.42 lb), 0.62 kg (1.4 lb) including cable (10 m), 0.81 kg (1.8 lb) including cable (15 m)
- Weight: 0.4 kg (0.89 lb), 0.62 kg (1.4 lb) including cable (10 m), 0.85 kg (1.8 lb) including cable (15 m)

**Certified to ISO 9001 (TUV PRODUCT SERVICE)**

**For details, please contact:**

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* Specifications subject to change without notice.