

# GPS Navigator KGP-920

# Fully compliant with New IMO requirements





# **FEATURES**

# **Compliant with New IMO**

Meeting with New IMO requirements MSC.112(73) and IEC 61108-1 Ed.2 for SOLAS carriage requirements. Approved for U.S. Coast Guard Module B.

# **GNSS** sensor of AIS

The KGP-920 GPS Navigator can be used as a GNSS sensor of AIS.

# SBAS available

The satellite based positioning correction system fully operated. The systems called WAAS (USA), EGNOS (EU) and MSAS (ASIA) .

# **Quick positioning**

The true parallel 18 channel GPS receiver provides precise and quick positioning at any time.

# **Optional Beacon DGPS**

The built-in beacon receiver is available as an option. It can be used as a high-accuracy differential GPS navigator.

#### **SPECIFICATIONS**

#### **GPS** receiver

Receiving frequency		1575.42 MHz		
Receiving channel		18 channel parallel		
Receiving code		C / A code		
Sensitivity		Better than -130 dBm (elevation angle: 5° or over)		
Accuracy Position		10 m 2drms (GPS), 5 m 2drms (DGPS), 8 m 2drms (SBAS)		
	SOG	0.1 kt rms		
$(HDOP \le 4)$	COG	±3° (SOG 1-17 kt), ±1° (SOG >17 kt)		

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

Display section			
Display	LCD with backlight (128 x 64 dots, effective picture area: 85.71 x 54.35 mm)		
Display mode	Standard text (NAV1), Navigation graph (NAV2), 3-D Highway (NAV3), Simple plotter (PLOT), MOB (Man Over Board)		
Position data display	Latitude / longitude in increments of 0.0001 minute, converted Loran C LOPs, converted Loran A LOPs, converted Decca LOPs		
Instant (event) memory	200 points		
Waypoint memory	200 points		
Route memory	20 routes (Max. 400 waypoints) reverse trail possible		
Alarm	Proximity, Cross track error, CDI, Anchor watch		
Position compensation	Latitude / longitude, LOPs, Datum		
Magnetic compensation	Auto or manual		
Power supply	10.8 to 31.2 VDC		
Power consumption	4.5 W or less (at 24 VDC)		

#### **Environment**

Operating temperature	Display unit: -15° to +55°
	Antenna unit: -25° to +55°
Waterproofing	Display unit: IPX4
	Antenna unit: IPX6

## **Data Input / Output**

Output data format	IEC 61162-1 / NMEA 0183 Ver.1.5 (NMEA1, 2) / CIF /
(DATA connector)	SHIPMATE (AAM, APB, BOD, BWC, DCN, DTM, GBS,
	GGA, GLC, GLL, GNS, GSA, GSV, MSS, RMB, RMC,
	Rnn, RTE, SGR, VTG, WDC, WPL, XTE, ZDA)
Output data format	IEC 61162-1 (AAM, APB, BOD, BWC, DCN, DTM, GBS,
(DATA2 connector)	GGA, GLC, GLL, GNS, GSA, GSV, MSS, RMB, RMC,
	Rnn, RTE, SGR, VTG, WDC, WPL, XTE, ZDA)
Input data format	RTCM SC104 Ver.2.0 (DGPS)

## **EQUIPMENT LIST**

# Standard Equipment (KGP-920)

Display unit	KGP-920	With mounting bracket and vinyl cover	1
GPS antenna as standard	GA-08L	With 15 m antenna cable and BNC connector	1
Other antenna selection	GA-08	With 10 m antenna cable and BNC connector	
	GA-08S	With 0.5 m antenna cable for cable extension 30 m / 60 m and N-P connector	
DC power cable, Spare par	ts, Installa	tion material, Operation manual	

#### Standard Equipment (KGP-920 with beacon receiver)

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Display unit	KGP-920	With beacon receiver, mounting bracket and vinyl cover	1
GPS antenna as standard	GA-08L	With 15 m antenna cable and BNC connector	1
Other antenna selection	GA-08	With 10 m antenna cable and BNC connector	
	GA-08S	With 0.5 m antenna cable for cable extension 30 m / 60 m and N-P connector	
Electric field type beacon antenna coupler	BA-02L-K	With 15 m antenna cable and BNC connector	1
DC power cable. Spare pa	tion material. Operation manual		

DC power cable, Spare parts, installation material, Operation manu

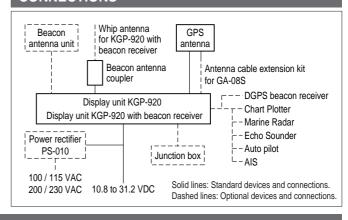
#### Option (KGP-920)

Connecting cable, Flush mount kit, Antenna cable extension kit 30 m / 60 m, N / BNC convertor connector cable, Power rectifier, AC power cable, Junction box

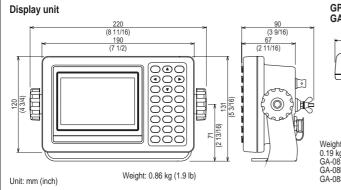
#### Option (KGP-920 with beacon receiver)

Connecting cable, Flush mount kit, Antenna cable extension kit 30 m / 60 m, N / BNC convertor connector cable, Power rectifier, AC power cable, Junction box Whip antenna RA-14A, Magnetic field type beacon antenna unit BA-03L with 15 m cable / BA-03 with 10 m cable / BA-03S with 0.5 m cable

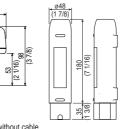
# **CONNECTIONS**

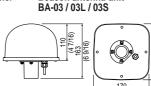


# **DIMENSIONS AND WEIGHT**









Beacon antenna unit

Weight: 0.92 kg (2.1 lb) without cable 8A-03: 1.4 kg (3.1 lb) including cable (10 m) BA-03: 1.6 kg (3.6 lb) including cable (15 m) BA-03S: 0.99 kg (2.2 lb) including cable (0.5 m)

Weight:
0.19 kg (0.42 lb) without cable
GA-08: 0.62 kg (1.4 lb) including cable (10 m)
GA-08: 0.81 kg (1.8 lb) including cable (15 m)
GA-08S: 0.26 kg (0.57 lb) including cable (0.5 m)

Weight: 0.4 kg (0.89 lb) without cable BA-02L-K: 1.2 kg (2.7 lb) including cable (15 m)

• Design and specifications are subject to change without notice.

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precaution

To ensure proper and safe use of the equipment, please carefully read and follow the instructions in the Operation Manual.

For details, please contact: