

GNSS Compass

KC-1400

Safe navigation with multi-GNSS compass system



Features

- ► Compatible with GPS / QZSS, Galileo, BeiDou, GLONASS
- ▶ Highly accurate heading, position, speed, rolling, pitching and heaving data
- ► SBAS (MSAS / WAAS / EGNOS) enabled
- ▶ 10,000 waypoints, 100 routes and 3,000 track points
- ▶ Built-in high-precision gyro sensor for backup
- ▶ Equipped with four data ports of NMEA0183 x 3, LAN (IEC61162-450) x 1
- ▶ 4.3-inch high-resolution Color LCD
- ► Equipped with numeric keypad

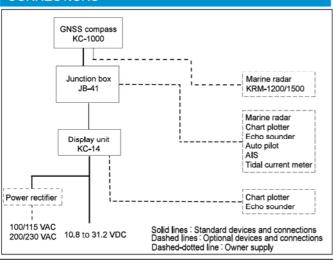
SPECIFICATIONS

Display unit GNSS compass KC-100 Display size and type Receiving frequency Receiving channel Receiving channel Received signal GPS QZSS Galileo GLONASS BeiDou GLONASS GELONASS GELON	Model	KC-1400		
GNSS compass KC-1000 Display size and type Receiving frequency 1575.4200 MHz / 1561.0980 MHz / 1602.5625 MHz Receiving channel 72 channels GPS 1575.4200 MHz / 1561.0980 MHz / 1602.5625 MHz Receiving channel 72 channels GPS 1575.4200 MHz / 1602.5625 MHz Receiving channel GPS 1575.4200 MHz / 1602.5625 MHz Receiving channel GPS 1575.4200 MHz L1 C/A L1C/A L1S E1 B/C L1 C/A BeiDou 1561.0980 MHz L1 OF SBAS L1 C/A BeiDou 1561.0980 MHz L1 OF Sensitivity -148 dBm or less Setting time 90 seconds or less (standard) Time to position fix 50 seconds or less (standard) Time to position fix 50 seconds or less (standard) Time to position fix 50 seconds or less (standard) Accuracy Heading 0.5° rms or less GPS: 10m (2 drms, SA: OFF, PDOP: 3 or less) SBAS: 3m (2 drms, SA: OFF, PDOP: 3 or less) Velocity 1 m / sec (rms, SA: OFF, PDOP: 3 or less) Waltimum follow-up acceleration 0.1° Maximum role/pitch angle Maximum follow-up acceleration 1 g Base line length 0.5 m Presentation mode Navigation Graph, Highway, Plotter, POB Position data display Latitude/longitude in increments of 0.0001 minutes, converted Loran C LOPs, converted Loran A LOPs, converted Loran C LOPs, converted Loran A LOPs, converted Loran C LOPs, converted Loran A LOPs, converted Loran C LOPs, conve				
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Navigation Graph, Highway, Plotter, POB Position data display Latitude/Iongitude in increments of 0,0001 minutes, converted Loran C LOPs, converted Loran A LOPs, converted Decoa LOPs Navigational display Speed, Course, Distance/Bearing/XTD/CDI/Time to Waypoint, Present time (UTC or LOC), Satellite status, Distance/Bearing between two points, POB display Instant (event) memory 1,000 points Waypoint memory 9,000 points Route memory 100 routes reverse trail possible Alarm GNSS Fix, ANCH, PROX, XTD, CDI Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences MMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATAS)4 only) Power supply 10.8 to 31.2 VDC	Base line length	0.5 m		
converted Loran C LOPs, converted Loran A LOPs, converted Decca LOPs Navigational display Speed, Course, Distance/Bearing/XTD/CDI/Time to Waypoint, Present time (UTC or LOC), Satellite status, Distance/Bearing between two points, POB display Instant (event) memory 1,000 points Waypoint memory 9,000 points Waypoint memory 100 routes reverse trail possible Alarm GNSS Fix, ANCH, PROX, XTD, CDI Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/belocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences MMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATA3/4 only) Power supply 10.8 to 31.2 VDC	Presentation mode			
Present time (UTC or LOC), Satellite status, Distance/Bearing between two points, POB display Instant (event) memory 1,000 points Waypoint memory 9,000 points Route memory 100 routes reverse trail possible Alarm GNSS Fix, ANCH, PROX, XTD, CDI Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences MMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATAS/4 only) Power supply 10.8 to 31.2 VDC	Position data display	converted Loran C LOPs, converted Loran A LOPs,		
Waypoint memory 9,000 points Route memory 100 routes reverse trail possible Alarm GNSS Fix, ANCH, PROX, XTD, CDI Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant NMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATA3/4 only) Power supply 10.8 to 31.2 VDC	Navigational display	Present time (UTC or LOC), Satellite status,		
Route memory Alarm GNSS Fix, ANCH, PROX, XTD, CDI Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant MMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATA3/4 only) Power supply 10.8 to 31.2 VDC	Instant (event) memory	1,000 points		
Alarm GNSS Fix, ANCH, PROX, XTD, CDI Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/RO/T/Heaving averaging constant output data format and sentences MAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATAS/4 only) Power supply 10.8 to 31.2 VDC	Waypoint memory	9,000 points		
Compensation Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll Magnetic compensation Automatic or Manual Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences MAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATAS/4 only) Power supply 10.8 to 31.2 VDC	Route memory	100 routes reverse trail possible		
Magnetic compensation Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences MMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATAS/4 only) Power supply 10.8 to 31.2 VDC	Alarm	GNSS Fix, ANCH, PROX, XTD, CDI		
Parameters Sailing mode (Great circle / Rhumb Line), Position display (L/L Lop), Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences MMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450 AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATAS/4 only) Power supply 10.8 to 31.2 VDC	Compensation	Heading, Latitude/Longitude, LOP, Time difference, Pitch/Roll		
Language, LOP (Loran C, Loran A, Decca), Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Position/Velocity/Heading/Pitching/Rolling/ROT/Heaving averaging constant Output data format and sentences NMEA 0183 Ver.2.0, IEC 61162-1ed5, IEC 61162-450, AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATA3/4 only) Power supply 10.8 to 31.2 VDC	Magnetic compensation			
sentences AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATA3/4 only) Power supply 10.8 to 31.2 VDC	Parameters	Language, LOP (Loran C, Loran A, Decca), Memory of waypoints		
		AAM, APB, ATT, BOD, BWC, DTM, GBS, GGA, GLL, GNS, GSA, GSV, HDM, HDT, HVE, RMB, RMC, ROT, RTE, THS, VTG, WPL, XTE, ZDA, PKODG21, ALC, HBT (DATA3/4 only)		
Power consumption (24 VDC) 12W or less	Power supply			
	Power consumption (24 VDC)	12W or less		

Environmental

	2.11.10.11.10.1td.					
		-15°C to +55°C				
temperature	GNSS compass	-25°C to +55°C				
Water	Display unit	IPX4				
protection	GNSS compass	IPX6				

CONNECTIONS



EQUIPMENT LIST

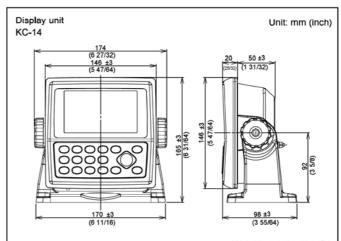
Standard Equipment

Display unit	KC-14	With mounting bracket and hard cover		
GNSS compass	KC-1000	With bird protector		
DC power cable	CW-276-2M	With 5-pin connector and one end plain		
Connecting cable	CW-430-5M	6-pin water resistant connector and one end plain		
NMEA cable	CW-427-15M	12-pin water resistant connector and one end plain		
Junction box	JB-41	For connection between Display unit and GNSS compass		
Operation Manual, Installation material				

Option

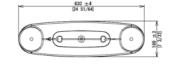
Connecting cable, Junction box, Power rectifier, AC power cable, LAN cable, NMEA extension cable, LAN extension cable

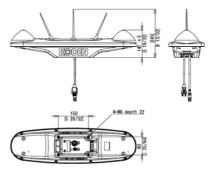
DIMENSIONS AND WEIGHT



Weight: 0.89kg (1.96lb)

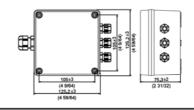






Weight: 2.5kg (5.5lb)

Junction box JB-41



Weight: 0.48kg (1.06lb)

 \bullet Design and specifications are subject to change without notice.



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Safety 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:



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