

# ONWA®

Marine Electronics

## Model: KEC-70G

### Electronic GPS/Compass



\*Choice of different heading sensors : Specify when ordering



Navigation data



Steering



Compass



Roll and Pitch

- Heading Sensor for Radar/ARPA, AIS, ECDIS, Scanning Sonar
- KEC-70G provides GPS information, Lon/Lat, SOG and COG, with Pitch and Roll Function
- Used with High Accuracy Onwa Marine Heading Sensor KA-GC9A, Satellite Compass KA-SC20 or KA-SC90
- Can Correct Magnetic Deviation Manually or Automatically
- Provide NMEA0183 and NMEA2000 Heading and GPS Output
- 2 NMEA0183 output are RS422 Electrical Interface
- There are no mechanical parts such as gimbals or rotating motor, thus the compass is free from routine maintenance.

# SPECIFICATIONS

## Heading Sensors (Choose one below : Specify when ordering)

- a) KA-GC9A      b) KA-SC20      c) KA-GC90

## Power Supply

- Electrical: 10.5 – 32VDC
- Power consumption : ~0.5A at 12VDC (no heading sensor connected)
- Protection: overcurrent, overvoltage, power transient and accidental reverse polarity protection

## Input / Output (IEC61162-1)

### Input

- Input port : RMC, GGA, GSA, GSV, HDT, HDG, HDM, HEV, GMS

### Output : 2 x NMEA0183 (RS422)

#### • Output port 1

- Output sentences: GGA, GSA, HEV , RMC and selectable sentences among of HDT, HDM and HDG
- Support sentences: RMC, GGA, GSA, GSV, HDT, HDG, HDM, HEV, GMS,
- Baudrate: Selectable among 4800, 9600, 19200, 38400
- Heading output intervals : Selectable among 100ms, 200ms and 1000ms

#### • Output port 2

- Output sentences: Sentences from the heading sensor and selectable sentences among of HDT, HDM and HDG
- Support sentences: RMC, GGA, GSA, GSV, HDT, HDG, HDM, HEV, GMS,
- Baudrate: Selectable among 4800, 9600, 19200, 38400
- Heading output intervals : Selectable among 100ms, 200ms and 1000ms

## NMEA2000

- Supported transmit PGN : 126992, 127250, 129025, 129026, 129029, 129033, 129539

## Environment Conditions

- Ambient temperature: -5°C to +55°C
- Humidity: 93%±3% on 40°C
- Waterproofing: IPX6

## Interconnection / Dimension

