

# ONWA<sup>®</sup>

## AUTOPILOT SYSTEM MODEL KAP-866

### STANDBY MODE

|                                 |     |            |
|---------------------------------|-----|------------|
| 40 50 60 70 80 90 E 100 110 120 |     |            |
| Heading                         |     |            |
| <b>080</b>                      |     |            |
| Weather                         | 16  | Heading    |
| Rudder                          | 10  |            |
| Counter                         | 4   |            |
| Mode                            | Man | <b>080</b> |
| 0 20                            |     |            |

### AUTO MODE

|                                 |    |            |
|---------------------------------|----|------------|
| 40 50 60 70 80 90 E 100 110 120 |    |            |
| Heading                         |    |            |
| <b>080</b>                      |    |            |
| Weather                         | 16 | Set Course |
| Rudder                          | 10 |            |
| Counter                         | 4  |            |
| Mode                            | A  | <b>060</b> |
| 0 20                            |    |            |

### FOLLOW UP

|                                 |    |            |
|---------------------------------|----|------------|
| 40 50 60 70 80 90 E 100 110 120 |    |            |
| Heading                         |    |            |
| <b>080</b>                      |    |            |
| Weather                         | 16 | <b>S20</b> |
| Rudder                          | 10 |            |
| Counter                         | 4  |            |
| Mode                            | FU | Set Rudder |
| 0 20                            |    |            |

### NAV MODE

|                                 |     |            |
|---------------------------------|-----|------------|
| 40 50 60 70 80 90 E 100 110 120 |     |            |
| Heading                         |     |            |
| <b>080</b>                      |     |            |
| Weather                         | 16  | BRG        |
| Rudder                          | 10  |            |
| Counter                         | 4   |            |
| Mode                            | Nav | <b>060</b> |
| 0 20                            |     |            |



- Fluxgate heading sensor with high accuracy and stability
- Automatic correction for local magnetic variation
- 4.5 silver bright LCD display
- Off course alarm warns when vessel is not responding to autopilot control
- Navigate with designed route of GPS Navigator
- Timer can be used as an adjustable watch alarm
- Gyro compass input with Gyro converter unit

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# SPECIFICATION OF KAP-866

## Functions

1. Auto mode :
  - Change course by panel dial knob
  - Change course by fix or handheld remote (optional)
2. Standby mode
3. GPS Navigation mode
4. Follow UP mode

## Steering system

Hydraulic or electro-mechanical

## Heading sensor

1. Fluxgate heading sensor (standard)
2. Gyro compass thru gyro converter (optional)

## Nav sensor

GPS Navigator: NMEA0183, APA, APB  
(baud rate: 4800)

Heading Input: NMEA0183, HDT, HDG or HDM  
(baud rate: 4800)

## Adjustment of parameters

Weather, Rudder and Counter Rudder from Control menu.

Trim, Rudder Ratio and Rudder Limit from Function menu.

## Alarm

1. Off course alarm: 0~180 degree adjustable
2. watch alarm: 1~60 adjustable watch alarm. will trigger external alarm If not reset within 60 sec.
3. NMEA data alarm: Trigger when lost of NMEA data from GPS Navigator in GPS

## Power Supply

12V or 24VDC, Standby 0.4A, Auto mode 1.0A for control unit only.

## Equipment List

- KAP-866 control unit
- Rudder Feedback unit KRF-36
- Fluxgate heading sensor KFG-25
- Standard accessories
- Standard installation kit
- Operator manual

## Options



Compass Top Sensor



Outdoor Fluxgate Compass



Rudder Indicator



Hand Remote Control

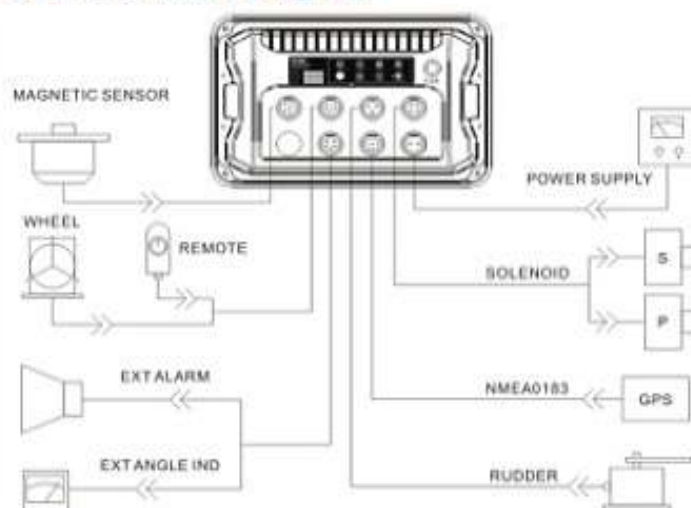


Electric Steering Helm

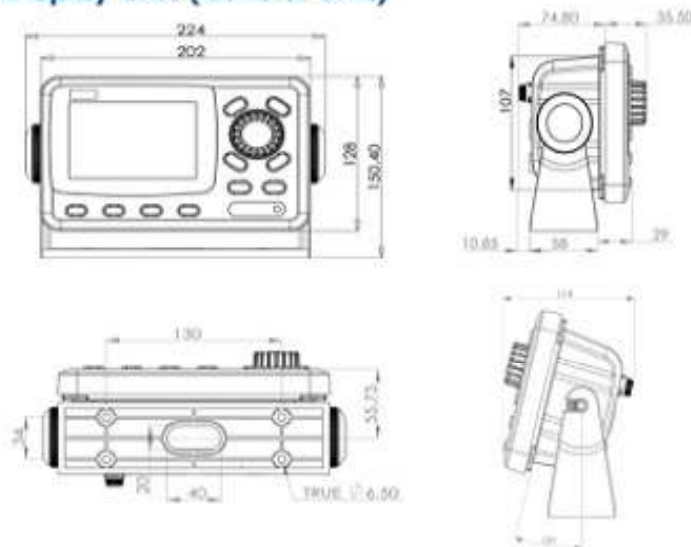


Gyro to NMEA Converter

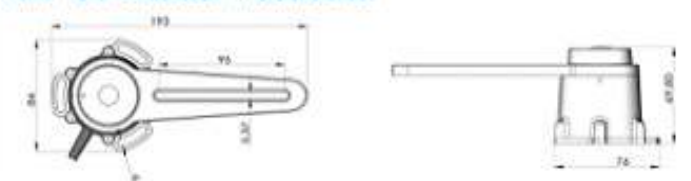
## Interconnection Diagram



## Display Unit (Control Unit)



## KRF-36 Rudder Feedback



## KFG-25 Fluxgate Sensor

