

Joystick Control System

MACS-KM



KAMOME



MITSUI E&S

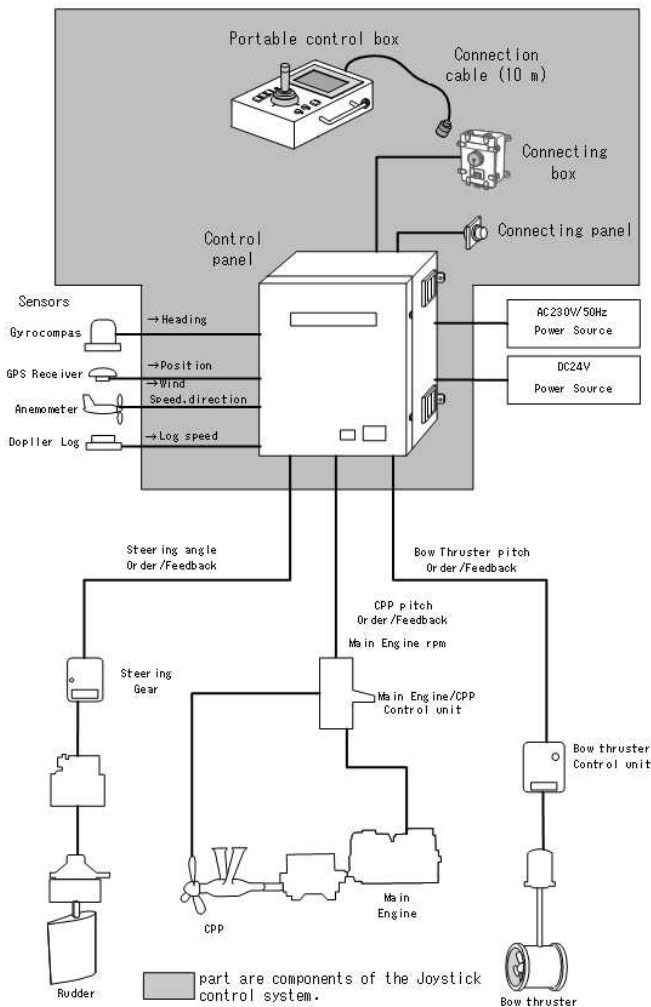
MACS-KM integrates operation of CPP, thruster and rudder into joystick or dial to operate vessel to all the directions or turn vessel around by optimal control program of computer.

In addition to propulsive capability of CPP and others, MACS-KM adds high maneuverability to vessel and plays a big role for modernization of ship.

Operation Mode

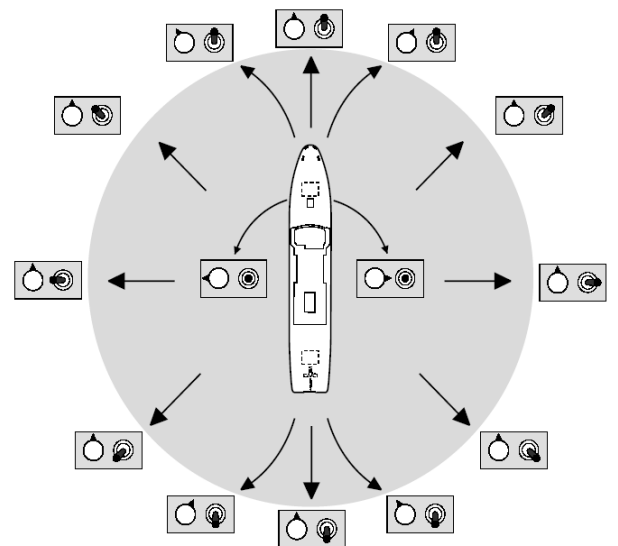
- Auto Heading mode
- Manual Joystick mode
- Individual mode
- Disturbance adjustment function (Feed forward control of wind effect)

System Configuration



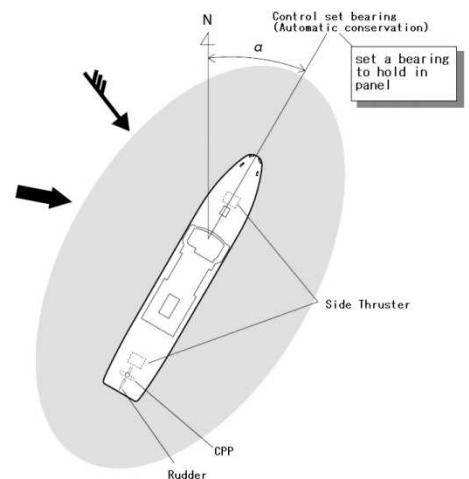
For) MMS-50MK II

Manual Joystick mode



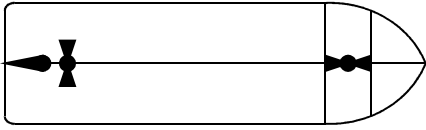
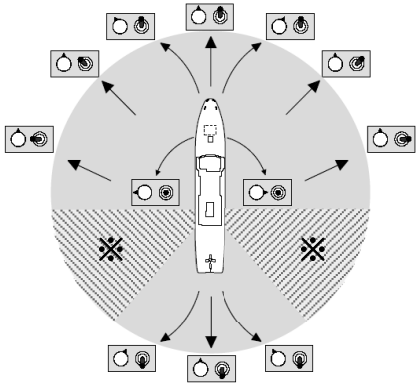
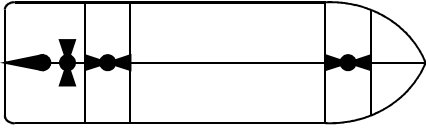
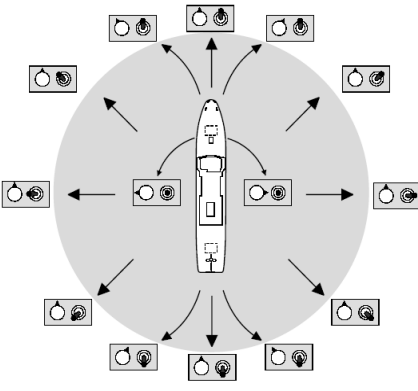

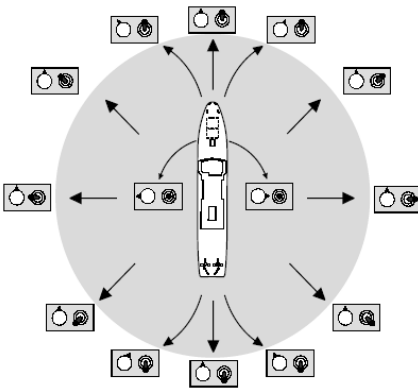
For) MMS-50MK II

Auto heading mode



For) MK I ~ III

Application

Model	Actuator	Vessel Motion
MMS-50 MK I	 <p style="margin-left: 40px;"> Bow Thruster × 1 CPP × 1 High Lift Rudder × 1 </p>	 <p style="text-align: center;">※Unviable direction</p>
MMS-50 MK II	 <p style="margin-left: 40px;"> Bow Thruster × 1 Stern Thruster × 1 CPP × 1 Rudder × 1 </p>	
MMS-50 MK III	 <p style="margin-left: 40px;"> Bow Thruster × 1 CPP × 2 Rudder × 2 </p>	

The control system can be built up with the formation other than the above.

Options

■Wing panel

Increase up to 2 sets

■Master panel

Install on a console to change over operation position between wing panel

■Rotation center select function

■Auto Log Speed mode

Log speed at almost 0 knot with same bearing could be kept.

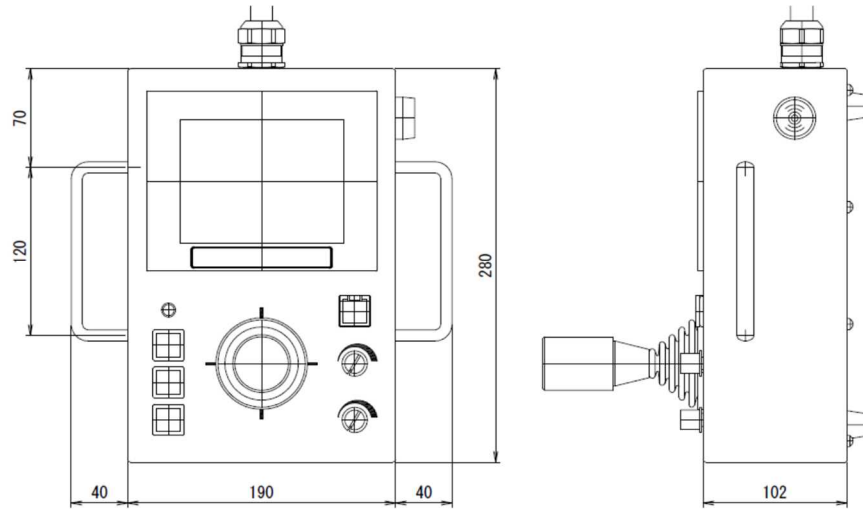
■Auto Wind Vane mode

■Auto Heading & Log Speed mode

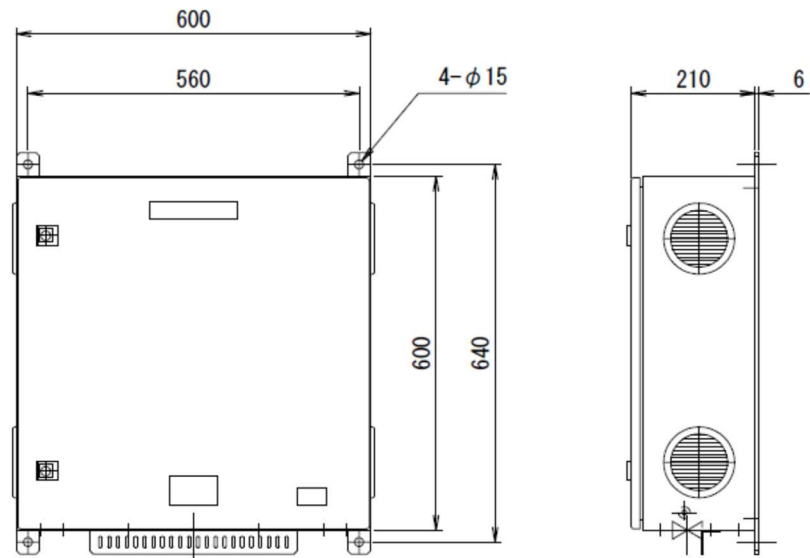
A certain bearing at almost 0 knot could be kept against wind force obtained from anemometer.

Equipment dimension

■ Portable control box (6.8kg)

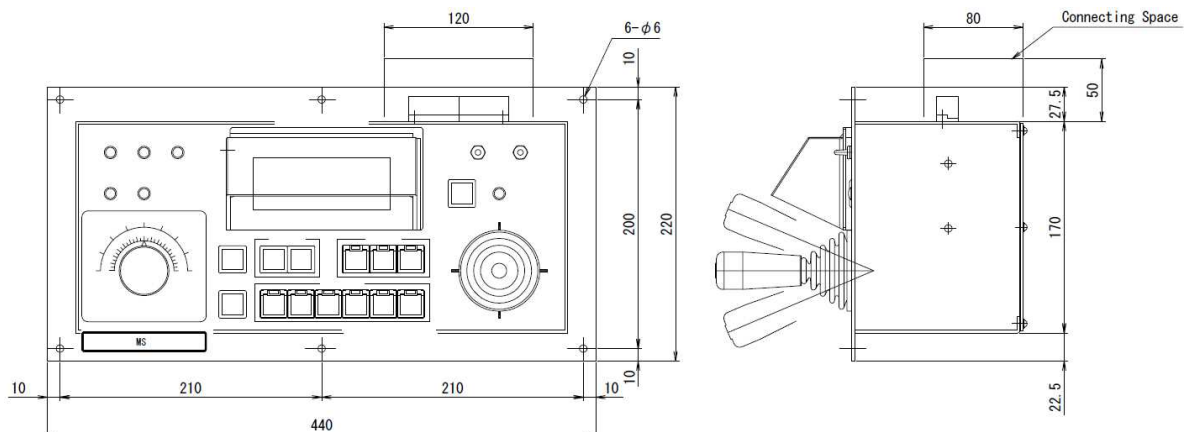


■ Control panel (35kg)



■ Normal accessory Junction box x2、 Connection cable (5m) × 1

■ Master panel (7.8kg) (Option)



KAMOME PRODUCT

- Fixed pitch propeller (F P P)
- Controllable pitch propeller (C P P)
- Side thruster
- K-7 Rudder (Flap rudder)
- Propeller shaft and its accessory
- Optimum control system for propulsive engine (PRO-CON CX300)
- Remote Control system
- CPP system for double ender



■ Office

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