



KAMOME PROPELLER

JOYSTICK CONTROL SYSTEM MACS-KM



KAMOME MES

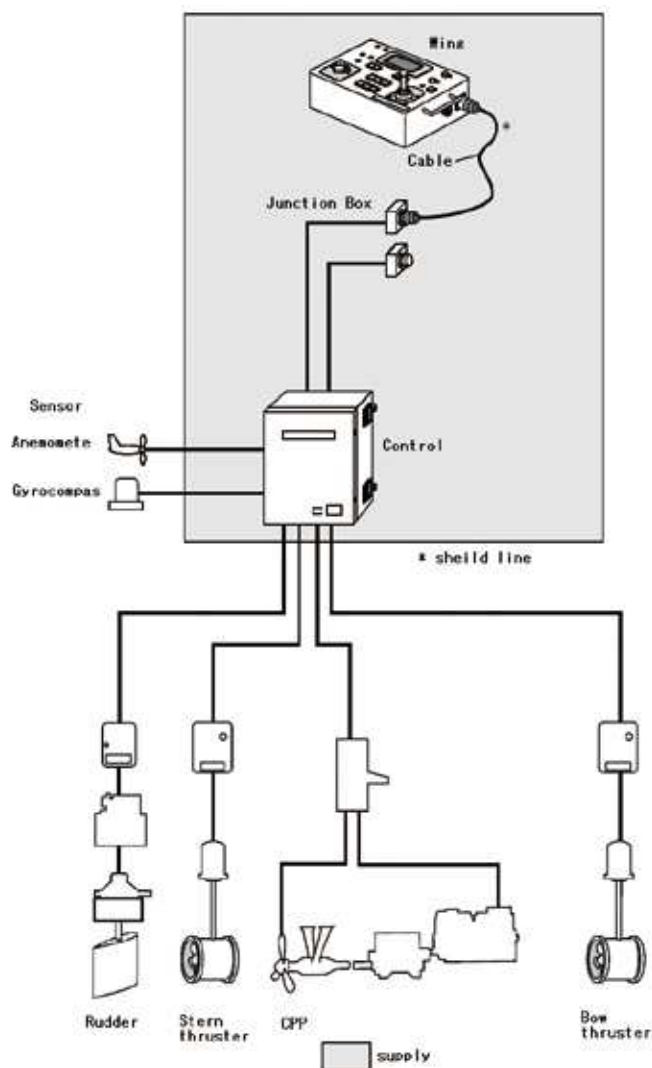
MACS-KM integrate operation of CPP, thruster, rudder to joystick and dial, and moves to free direction and turn in boat by optimal control program of a computer.

MACS-KM add the steerage characteristics that is altitude more to other original propulsion performance, plays a big role for modernization of ship in future.

Operation Mode

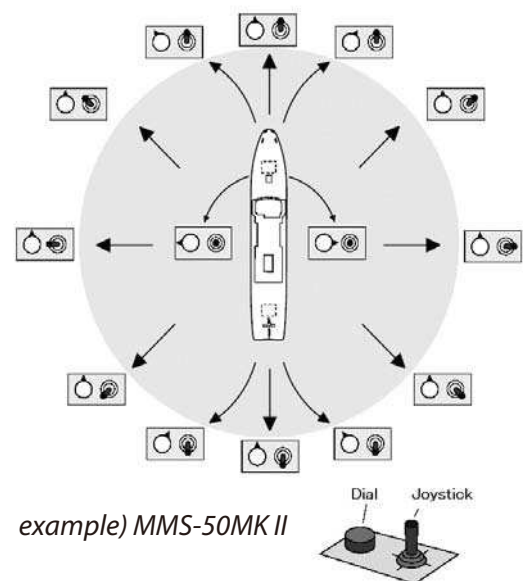
- Automatically Heading hold control mode
- Joystick control mode
- Actuator discreteness control mode
- Disturbance correction control function (feed forward control of wind effect)

System Modules

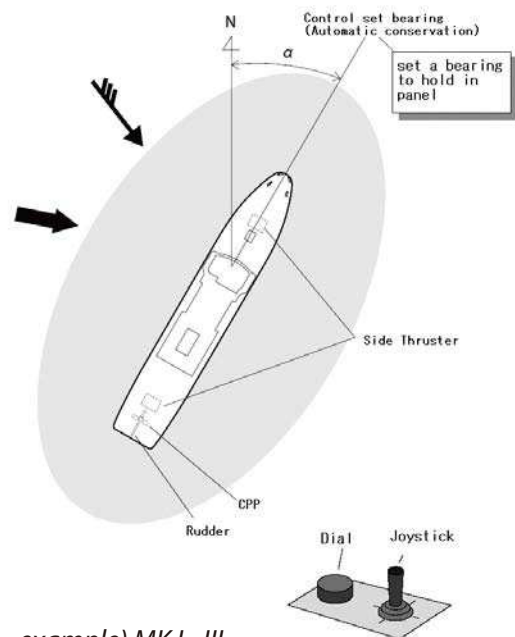


example) MMS-50MK II

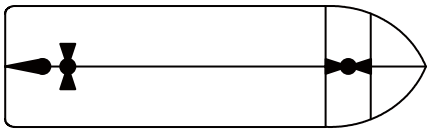
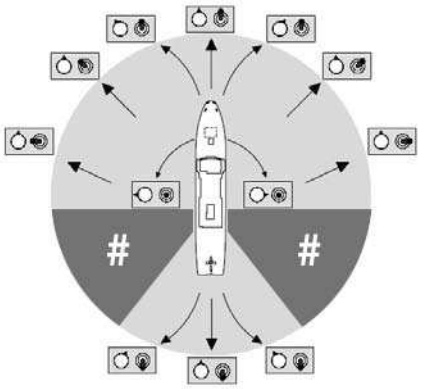
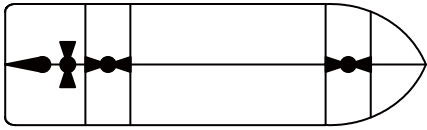
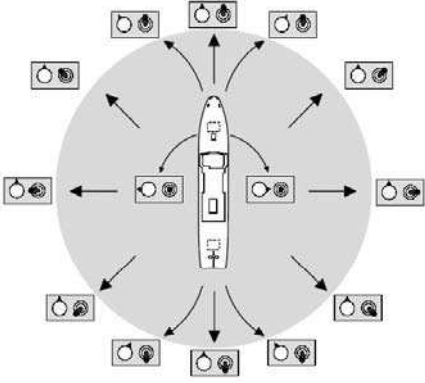
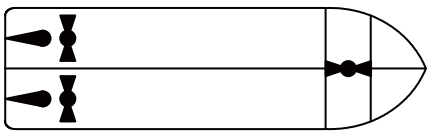
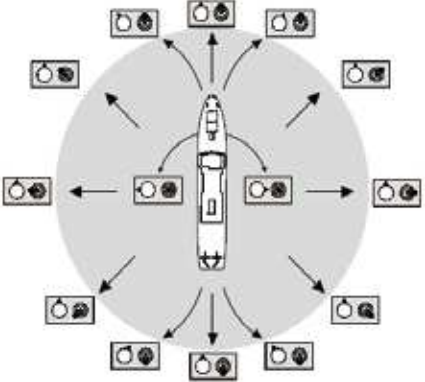
Joystick control



Automatic heading hold



Equipment object ship

MMS-50 MK I	 <p> Bow Thruster x 1 CPP x 1 High Lift Rudder x 1 <i>#Can't move to this course</i> </p>	
MMS-50 MK II	 <p> Bow Thruster x 1 Stern Thruster x 1 CPP x 1 Rudder x 1 </p>	
MMS-50 MK III	 <p> Bow Thruster x 1 CPP x 2 Rudder x 2 </p>	

Options

Wing Panel extension

Build more it, and 1 of them is possible to 2 of them in total.

Master Panel extension

Install it in a console, and can change plural wing panel and steerage location.

Center of rotation select

Under the turn, select the center of rotation, FORE, MIDSHIP, AFT.

Log speed keep function

Log speed degree to 0 knots with having held a control set BRG.

Counter-wind attitude conservation function

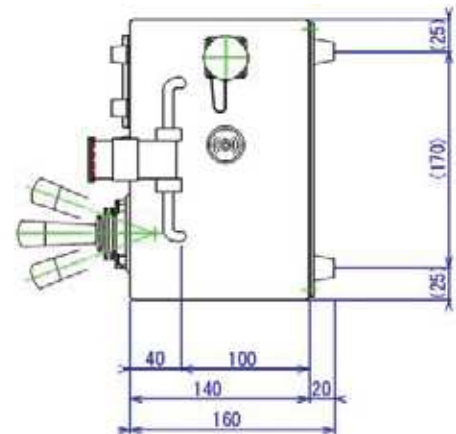
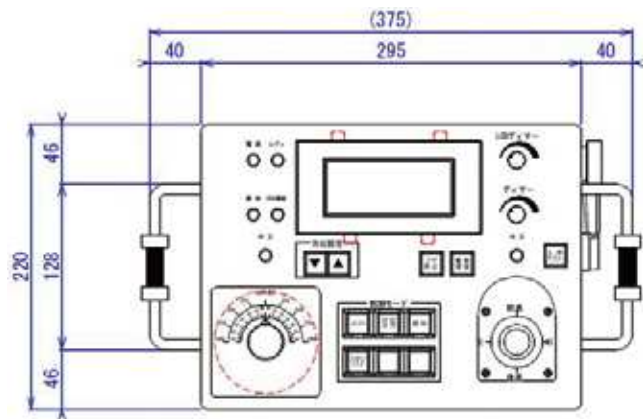
Keep constant stem BRG for direction of the wind provided from anemometer and log speed frequency to about 0 knots.

Actuator configuration modification

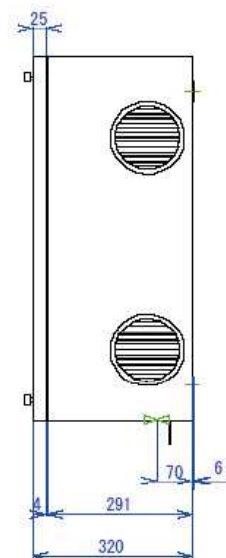
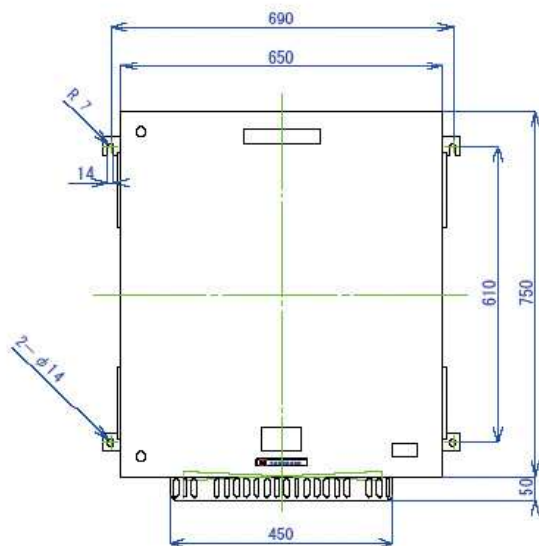
System construction is possible even beside the actuator configuration mentioned above.

Equipment outline dimension

Wing panel (ab. 5kg)

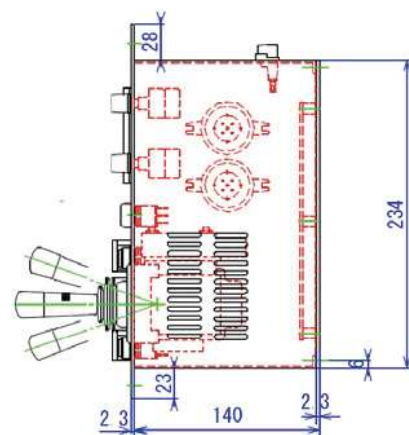
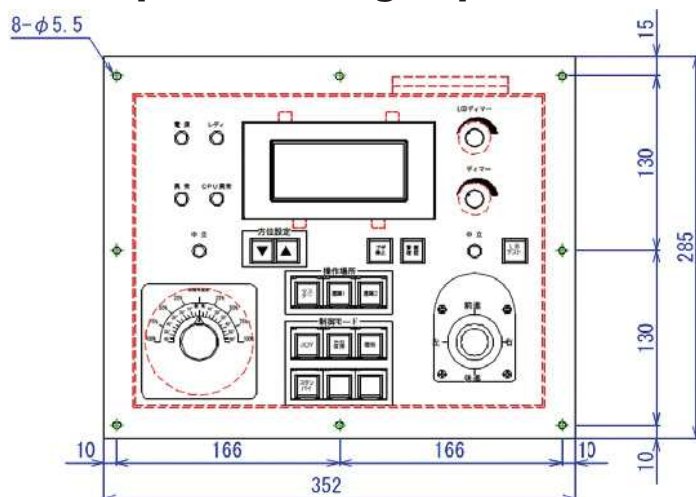


Control panel (ab. 80kg)



Normal accessory Junction box x 2, Connection cable (5m) x 1

Master panel (ab. 8kg) (option)



PRODUCTS

- Fixed pitch propeller (FPP)
- Controllable pitch propeller (CPP)
- Side thruster
- K-7 Rudder (Flap rudder)
- Stern shafting arrangement
- Optimum Propulsion control system (PRO-CON CX-300)
- Control system
- A CPP system for double-ender

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