

AUTOMATIC ELECTRICAL VESSEL STEERING

We started in May 2010 in Jakarta, as a one type vessel steering (tug boat Z-Peller) with simple tooling, several machines and five (5) personnel.

With hard work ethics, improvement in units, good quality control, continuous testing adjustment and professional working, we have our customer trust. With the trust we expand and improve our product from one type of vessel to almost all type of vessel.

We still keep improving ourselves because we know that customer satisfaction has no limit, and we will always follow the customer needs. A commitment to high quality and best service support to satisfy customer needs and strengthen our hard work ethics is our main purpose.

Continuous improvement make us has a solid investment in steering vessel product business. We concentrate and expand in the area that we are want to be good at. That's why we have all the experience you need to make your vessel steering and solve your problem.



Description about our Automatic Electrical Vessel Steering product.

1. Board Control Unit.

Board Control Unit is the part where we can setting and controlling all the vessel steering system in the navigation room, this part is consist of; measurement degree, direction setting, switch power system, switch power emergency system and switches emergency, lighting adjustor, and indicator lamps. This part is also show us :

- a. The actual position of the rudder, is shown by the measurement degree.
- b. The conditions of the steering units when it's functioning normally or not, is shown by the indicator lamps.
- c. The conditions of positioner when it's working normally or not, is shown by the measurement degree and indicator lamps.
- d. The direction of the vessel when it's moving straight or not, is shown by the measurement degree.



BOARD CONTROL UNIT

2. Synchro Processor Unit.

Synchro processor unit is the important part to processed all the setting or command from or to the board control unit and the synchro positioner unit. This part will arrange all the function of the unit in your steering system, including range sensitivity of synchro positioner between 0 to 30 degree. This unit also can detect all the malfunction of your unit or part and give you a report by the indicator lamp as a sign on your board control unit. This unit is designed for long time operation in the open sea because it's support by the full aluminium casing and hard work cooling fan.



FRONT VIEW

SIDE VIEW

BACK VIEW

SYNCHRO PROCESSOR UNIT

3. Synchro positioner unit.

Synchro Positioner unit is the part that will synchronizing the rudder by set your hydraulic to match all your position command. This unit is consist of ; synchro sensor, limit switch, control switch and safety impact and electric shock cover. This part is also keep your rudder deviation degree always in control and make your vessel direction always in straight line front.

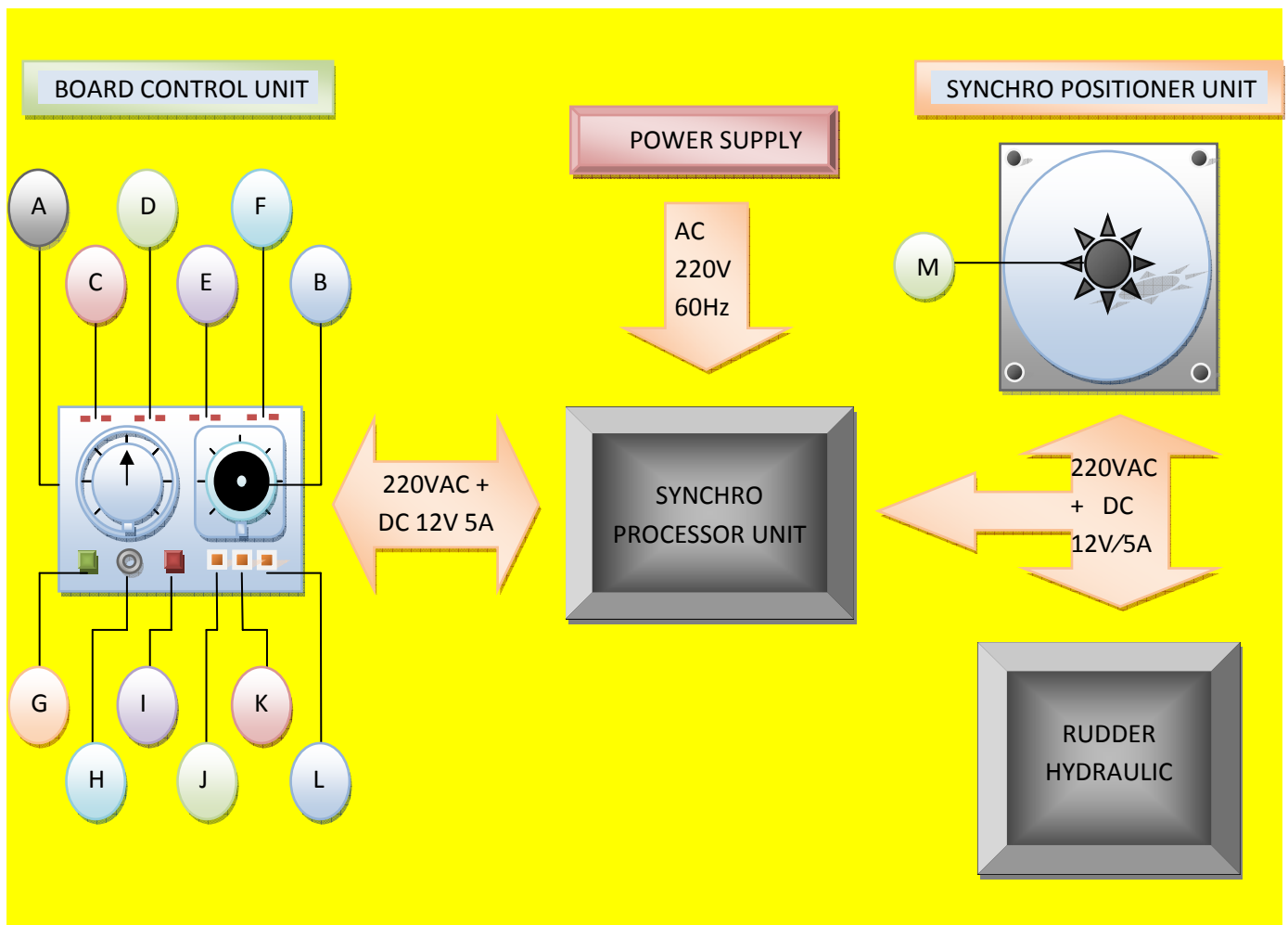


SYNCHRO POSITIONER AT RIGHT



SYNCHRO POSITIONER AT LEFT

SYNCHRO POSITIONER UNIT INSTALLED IN Z-PELLER ROOM



- A. MEASUREMENT DEGREE
- B. DIRECTION SETTING
- C. INDICATOR LAMP FOR ANALOG SETTING
- D. INDICATOR LAMP FOR RELAY SYNCHRO PROCESSOR UNIT
- E. INDICATOR LAMP FOR HYDRAULIC SOLENOID VALVE
- F. INDICATOR LAMP FOR HYDRAULIC PUMP AND SYNCHRO POSITIONER
- G. SWITCH POWER SYSTEM
- H. LIGHTING ADJUSTOR
- I. SWITCH POWER EMERGENCY SYSTEM
- J. SWITCH EMERGENCY TO TURN LEFT
- K. SWITCH EMERGENCY TO ZERO POSITION FOR RUDDER
- L. SWITCH EMERGENCY TO TURN RIGHT
- M. GEAR CONNECTOR SYNCHRO POSITIONER TO THE VESSEL RUDDER

AUTOMATIC ELECTRICAL VESSEL STEERING UNIT DETAILS

We also give you some photo of our product placed at vessel, and when the system was running test.



BEFORE



AFTER

