

Autopilot Series

Model PT500







Yokogawa Denshikiki Co., Ltd.

The model PT500 autopilot is designed for hig

The model PT500 autopilot, which has superior operability and functionality compared to previous models, is suitable for a wide range of applications, from large tankers to small freighters and high speed boats. It is available in two versions, model PT500A and model PT500D, which differ in respect of the method of automatic steering. You can freely select a suitable model and configure the optimum system for the type of vessel concerned.

Features

High reliability due to separation of functions

The follow-up steering and non follow-up steering systems are completely independent of each other. Consequently, an abnormality in one system has no effect on the other system.

Also, the control systems of the automatic and hand steering units are independent of each other.

High operability which minimizes human error

The course setter has a dial (25 degrees/rotation), and the set course indicator uses a readily visible red LED. The function keys use easy-to-understand pictorial characters in order to minimize the possibility of a misoperation.

High system expandability due to the use of a separate unit for each function

A separate DIN standard unit is used for each function, making for excellent functional expandability and operability.

The automatic steering unit, steering repeater compass and other units are of compact design and occupy a volume of about 80% of that of previous units. They can thus be easily incorporated in a console or used to build up a system.



1 reliability and meets the needs of the times.

Functions

A wide variety of steering functions

By connecting the autopilot to an ECDIS or INS, for example, you can perform rate constant control of automatic steering, and also fixed radius course altering control when navigating through a narrow channel. You can also add an override function (option) to the autopilot for collision avoidance. This autopilot can thus cope with a wide range of navigation conditions.

Multi-heading input

There are two input circuits: one is for a gyro compass, the other is for a magnetic compass etc. By inputting a heading signal from a magnetic compass, for example, you can back up the automatic steering heading signal from the gyro compass. (Input signal: NMEA0183)

Input port generation function

You can freely generate a heading signal from a heading sensor, such as a gyro compass or magnetic compass, as well as a set course signal from a GPS or INS etc, according to the particular format.

Off-course alarm

You can generate an off-course alarm by simply inputting a magnetic heading with NMEA0183.

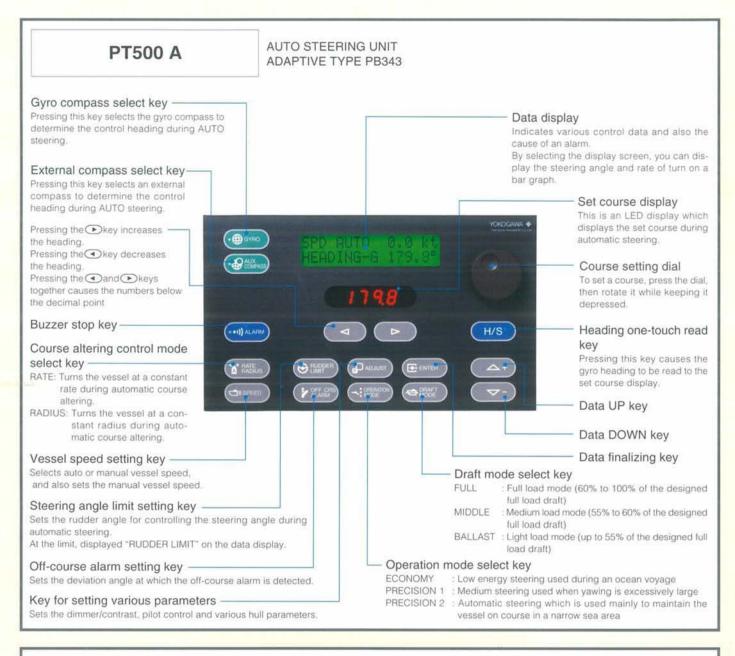
Digital remote controller (option)

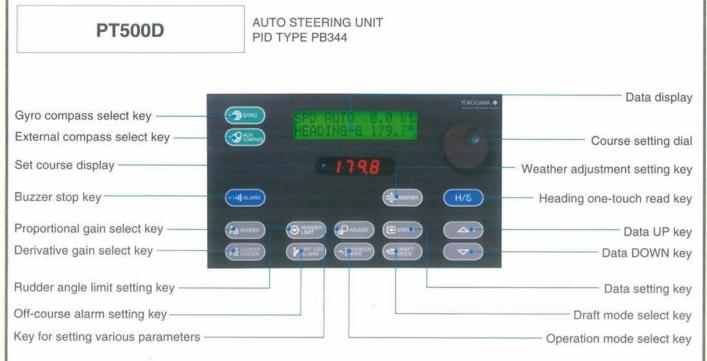
A digital remote controller enables you to change the steering angle setting (P/S 35 degrees) and also the set course from an arbitrary location during automatic steering.

Example of incorporating the PT500A in a panel



Control Panel





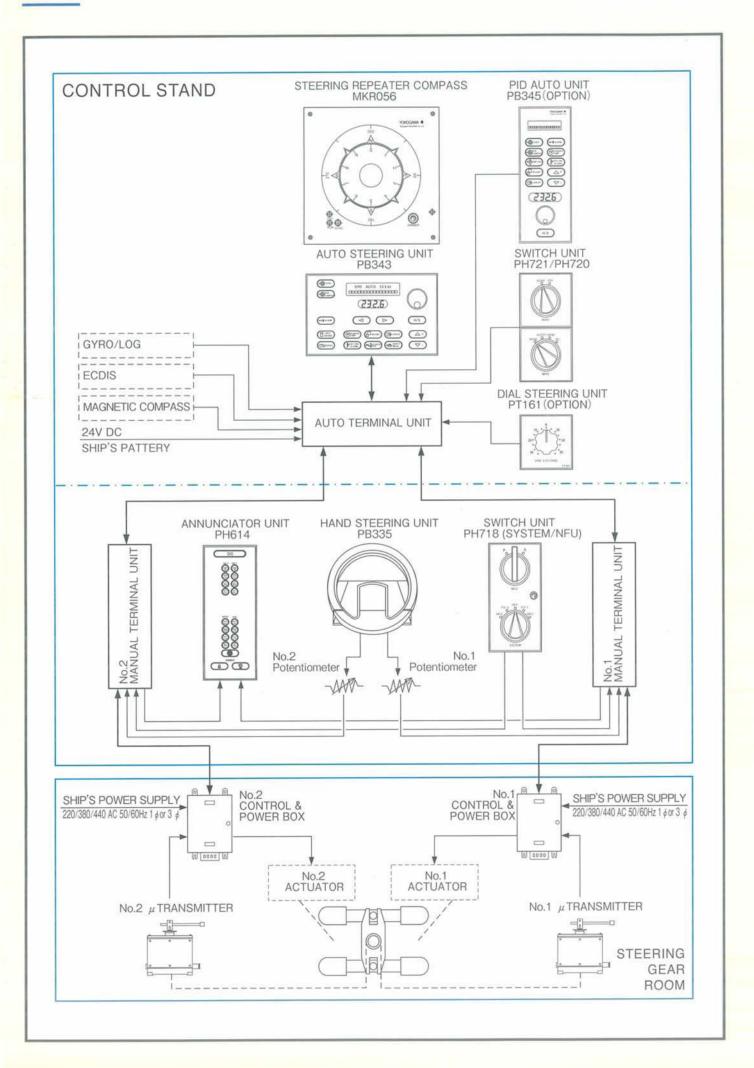


PT500D (option)

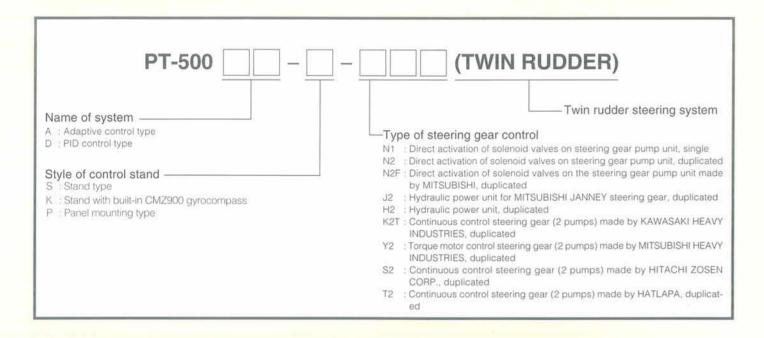
This is the PT500D PID type upright type unit. It has roughly the same functions as the horizontal type PID. When used in combination with the PB343 or the PB344 it permits full duplication of the automatic steering function. (In this case, the human-machine interface function, CPU, monitoring function and the power supply of the respective systems are independent of each other.)

AUTO STEERING UNIT PID TYPE (upright type) PB345

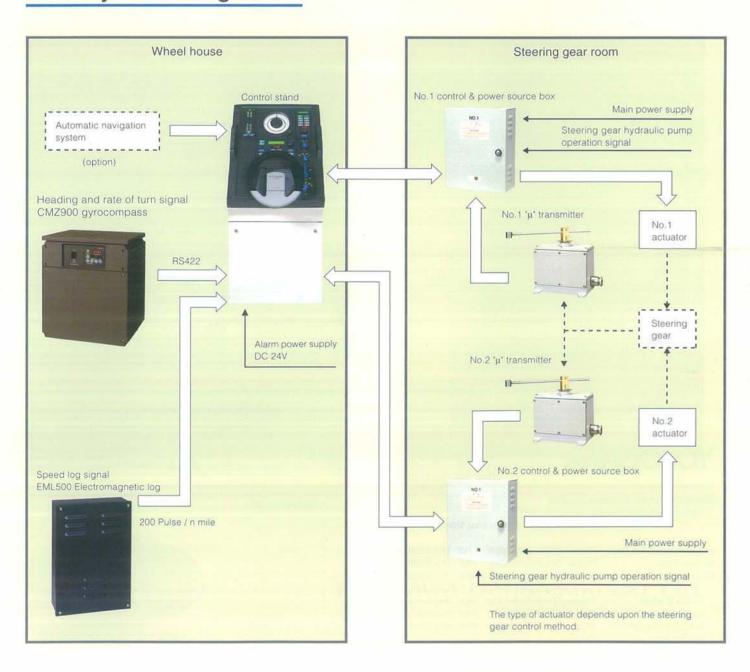


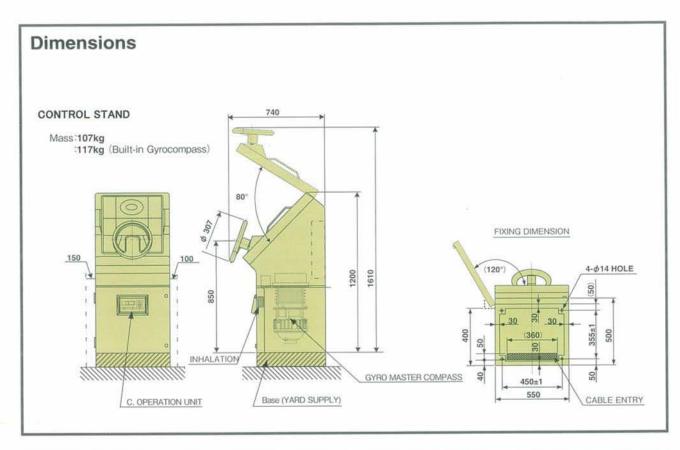


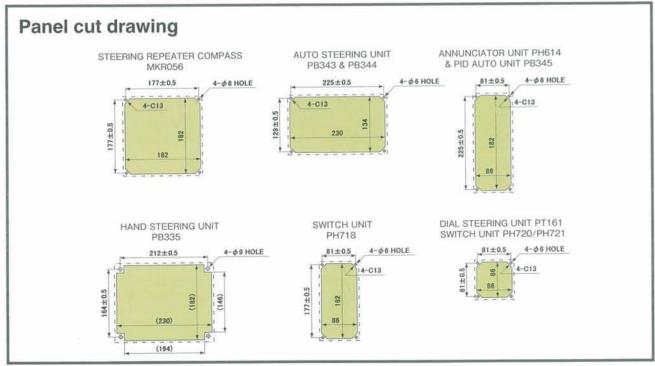
System model numbers



Basic system configuration









Caution: Be sure to read the instruction manual before using the equipment.





Yokogawa Denshikiki Co., Ltd.

URL: http://www.yokogawa.com/ydk/



Caution: Please read the manual before using this product.

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