

KEEP POSITION

PMH KP - 300

PETTER'S MARINE HYDRAULICS' "KEEP POSITION"

(KP) system is a dynamic positioning system for integration with the MPTC system or other control systems, which enables the vessel to keep its position or station relative to an ROV or other objects. The KP system is tuned to the individual vessel, and optimized with respect to the vessel's area of operation, which reduces both wear and tear on the vessels propulsion equipment and brings down the fuel costs. In situations where weather causes manual operations to seas due to increased risk, **PETTER'S MARINE HYDRAULICS'** KP system will expand the window of operation, making the operation both safe and reliable. Being able to perform an operation in difficult conditions reduces "waiting on weather" periods, ensures cost efficiency and keeps the project or delivery on schedule.

FUNCTIONALITY -

KP, Joysck, Auto Heading, Auto Speed,

Go-To-Target, Follow Route, Follow ROV and ECO-mode

The KP-300 includes the KP, Joystick, Auto Heading, Auto Speed, Go-To-Target, Follow Route, Follow ROV and ECO-mode, together with an extended GUI. KP-mode keeps your vessel in a desired position and heading, where the joystick lets you step your position in prefixed steps.

Using Joystick-mode makes docking and maneuvering both quick and easy, as the KP system directs all propulsion and maneuvering equipment to move the vessel in the desired direction. The Auto Heading/AutoSpeed-mode lets you direct the vessel in a desired heading and speed, compensated for drift due to wind and current.

Go-to-Target and Follow Route-mode lets the vessel go to a defined position or follow a given route. If the operation calls for a fixed heading whilst moving, this can be forced with a simple push of a button. Once the vessel has reached its target position, a notification is given and KP-mode is engaged.

FollowROV-mode enables the vessel to follow in the tracks of a ROV/target engaged in an operation, at a fixed distance, heading and bearing. While in Follow ROV-mode, the vessel's attitude can be altered and optimized relative to the ROV's position to stay clear of the umbilical or obstacles.

ECO-mode presents slacken requirements in regard to position accuracy and drift compensating response, allowing for slower ramp rates and lower RPMs.



This eases stress on the machinery, gives less wear and tear and contributes to reduced fuel costs.

The KP system is prepared for integration with thruster controlsystems such as **PETTER'S MARINE HYDRAULICS'** MOTOR PITCH and THRUSTER CONTROL (MPTC), but can also be used with any other system.

Please see the MPTC brochure or visit **PETTER'S MARINE HYDRAULICS'** homepage www.pmh.no for more information on this products.

TECHNICAL SPECIFICATIONS

Power	
Input voltage	24 DC ($\pm 15\%$)
Control panel	
Power consumption	< 5 W
Operator display	
Powerconsumption	< 25 W
Control cabinet	
Powerconsumption	< 250 W
Data input	
GPS	RS 485
Windsensor	RS 485

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TECHNICAL SPECIFICATIONS CONT.

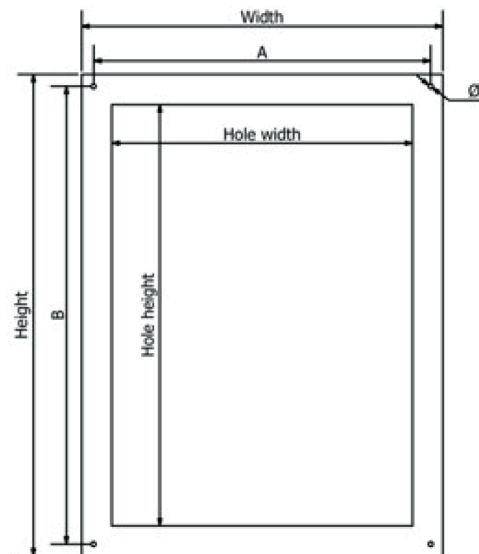
Compass	RS 485
Physical and environmental	
Operating temperature	0 to + 50°C
Storage temperature	-15 to +70°C
Humidity - operating	0-85% RH
Weight	
Control panel	0.3 kg
Operator display	2.5 kg
Control cabinet	< 50 kg

Dimensions (WxDxH)	
Control panel	120 x 160 x 200 mm
Operator display	315 x 241 x 48.5 mm
Control cabinet	600 x 600 x 300 mm
Standards and sertications	
Designed to meet	CE/FCC
Noise immunity	IEC61000-4-4, 2KV
Operator display tightness	IP65F
Cabinet tightness	IP65

TECHNICAL DRAWINGS

Control panel

Width	= 120
Height	= 180
Hole widht	= 100
Hole height	= 160
A	= 106
B	= 166
Ø	= 4



Operator display

Width	= 386,6
Height	= 320,2
Hole widht	= 363,2
Hole height	= 296,2
A	= 11.7
B	= 11.4

Panel thickness: 1.6 to 4.8 mm

