SIMRAD

Simrad AP70 Mk2 Autopilot Controller

The new AP70 Mk2 is a dedicated autopilot controller designed to meet the needs of professional mariners aboard a variety of commercial vessels.

Replacing both the AP70 and AP80 as our IMO/SOLAS autopilot controller, the AP70 Mk2 retains much of the well-reputed platform of its predecessors, but with a brilliant new display and modernised software interface.

Engineered for responsiveness, robustness and ease of use, the AP70 Mk2 pairs a precision rotary control dial with dedicated buttons for instant access to steering modes, several custom-configurable work modes and multiple rudder/thruster integration.

Wheelmarked for use on SOLAS vessels

The AP70 Mk2 builds on, and continues the legacy of the SIMRAD Pro Autopilot product portfolio. Its performance, robustness and quality are proven and recognised with the wheelmark symbol, making it suitable for all vessels ranging from small workboats to large tankers.

Advanced configuration and tuning options to suit all ships

Parameter ranges and tuning options to support vessel dynamics. Adjustable for all weather conditions, hull types, and work situations. Suitable for retro-fit on old ships as well as modern new-builds.

Compatible with all common rudder/drive types

Water Jet, Azi-pods, Voith-Schneider, Rudder, and Outboard. Control signals to control hydraulic pumps, solenoids, analog current/voltage, and control/handshake signals.

Up to 6 rudders/thrusters integration

Dual rudders, fore and aft thrusters support large and complex installations and redundancy.

Heavy-duty rudder feedback support

Simrad heavy-duty rudder feedbacks are supported.

Configurable Work Mode and Low/High Speed Modes

Autopilot settings can be tuned for optimal performance in separate low-speed, high-speed, and work modes. The user-configurable work mode allows the autopilot system to be configured for optimal response in a specific situation, such as a fully laden vessel, for configurable thruster usage.






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No Drift Steering

No Drift Mode integrates GPS navigation with auto-steering, using position data to counteract the effects of wind and tide. This allows the AP70 Mk2 to maintain a straight track over ground on the current course, without the need to manually set a waypoint or route.

Navigation Steering, Route Following

Navigation steering controls the ship on a pre-planned route from a Simrad MFD, Simrad ECDIS or third party MFD and ECDIS.

Command Transfer and Multiple Control Stations

Command transfer is a mechanism useful in multi-controller installations. It enables the officer on watch to allow or deny the transfer of autopilot control to control devices such as a secondary AP70 Mk2 or remote controller on a bridge wing station, either abovedeck, or aft bridge depending on the work scenario. The AP70 Mk2 can also be used in an open configuration, where control flow is unrestricted.

FEATURES

- Wheelmarked for use on board SOLAS vessels (IMO, MED-B)
- Advanced configuration and tuning options to suit all ships
- Compatible with all common rudder/drive types
- Up to 6 rudders/thrusters integration
- Heavy-duty rudder feedback support
- Configurable work modes and low/high speed modes
- No drift steering holds course against wind and tide
- Navigation steering, route following
- Command transfer and multiple control stations support

SPECIFICATIONS

Display	
Size	127 mm (5")
Resolution (HxW)	480 x 480
Type	16-bit color TFT
Antifog	Bonded
Best viewing direction	Any direction
Backlight	Cold Cathode Fluorescent Lamp (CCFL)
Networking	
CAN bus	1 port
USB	1 port
Ethernet	1 port
Power	
Local supply	12/24 V DC +30-10%
Consumption local supply	0.7/0.4 A at 12 V DC 0.4/0.3 A at 24 V DC backlight full/off"
NMEA 2000 Load Equivalent number (50 mA)	1
Interface	
External alarm/Active unit output	Maximum 100 mA, 4.5 A short circuit limit
External Take CMD input contact current	Maximum 8 mA
Environment	
Temperature, operation	-30°C to +55°C (-22°F to 131°F)
Temperature, storage	-25°C to +70°C (-13°F to 158°F)
Category	Exposed, IPx6
Mechanical	
Weight	1,4 kg (3.1 lbs)
Mounting	Panel (flush) or optional bracket
Compass safe distance	0.4 m
Material	Epoxy coated seawater resistant aluminium, plastic front bezel
Color	Black and grey
Cable inlet, refer to "AP70 MK2 connector pinouts"	1 Power/alarm, 1 Micro-C con.

GLOBAL SERVICE

COMMERCIAL SERVICE& SUPPORT

Our Service and Support hotlines are available 24/7/365.

Comes with:

- 2 Year Warranty
- Extended Warranty Options
- Global Service Network
- 2 Year OnBoard Support*
- 24 Hour Replacement*

*Applies to certified vessels only

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