Simrad AP50 Technical Specifications



AP50 Autopilot System

Boat size and type: Up to 200 feet, power Steering system types: Hydraulic, mechanical, solenoids Inter-unit connection: RobNet network or two-wire supply/data System ON/OFF: From control units/master unit Supply voltage: 10-40VDC Power consumption: Dependent on system configuration (See 1.4 Junction Unit) EMC protection: EN60945: 1996-11 Performance: IMO MSC(64)67, ISO | 1674:2000(E) Rate of turn: Within ±10% of preset value or 3°/min. (Ref. ISO 11674: 4.3.7) Heading indication error: <0.5° (Ref. ISO | 1674: 4.3.5) Heading stability: Within ±1° (Ref. ISO | 1674: 4.3.13) Automatic Steering control: Rudder Drive: Proportional pump or solenoid on/off Parameter selection: Automatic with manual override Sea state control: Adaptive sea state filter Language selection: English, German, French, Spanish, Italian, Dutch, Swedish, Norwegian. Electronic Interface: Navigation interface: Standard (NMEA 0183) NMEA input/output ports: Max. 6 (see Junction units and NI300X specifications) Refer to NMEA Sentences table page 64 for data. Heading output: Anritsu and Furuno radar display (clock/data) Heading sensors: Gyrocompass, Fluxgate compass, Magnetic compass, NMEA Compasses, Transmitting Heading Device (THD) Course selection: Rotary course knob and buttons Alarms: Audible and visual, external optional Compass difference, off heading, system failures, overload Steering modes: STANDBY, Non-follow-up, Follow-up, AUTO, AUTO-WORK, NAV, NAV-WORK

Special turn modes: DODGE, U-Turn, C-Turn (5-360[°]/min.) System selector autopilot/main

steering system: Potential free contact

AP50 Autopilot

Dimensions: See drawing above Weight: 0.9 kg (2.0 lbs.) Material: Epoxy coated aluminum Supply: 10-40 VDC via RobNet Power consumption: 3W **Environmental Protection:** IP56 (when panel-mounted) Safe distance to compass: 0.35 m (1.0 ft.) Color: Black Temperature: **Operating:** -25 to +55°C (-13 to +130°F) Storage: -30 to +80°C (-22 to +176°F) Display: Type: Backlit LCD matrix Resolution: 160 x 128 pixels Illumination: Adjustable in 10 grades Mounting: Panel mount or bracket mount (optional) Cable: RobNet cable 15 m (49 ft.) with one male connector

104 mm (4.1")

66.3 mm (2.6")

mm (9.1")

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AP51 Handheld Autopilot

Dimensions: See drawing above Weight: 0.57 kg (1.25 lbs.) Material: PC-ABS Supply: 10-40VDC via RobNet Power consumption: 3W Environmental Protection: IP56 Safe distance to compass: 0.35 m (1.0 ft.) Color: Black Temperature: Operating: -25 to +55°C (-13 to +130°F) Storage: -30 to +80°C (-22 to +176°F) Display: Type: Backlit LCD matrix Resolution: 80 x 32 pixels Illumination: Adjustable in 10 grades Mounting: Handheld or placed in a fixed, bracket-mount Cable: 7m (23 ft.) RobNet cable with air tube



287 mm (11.3")

Junction Units Dimensions: See drawing above Weight: 150 1.3 kg (2.9 lbs.) 150-40 2.8 kg (6.2 lbs.) Material: Anodized aluminum and black ABS cover Supply voltage: 12-32 VDC -10%/+30% Reverse voltage protection: Yes (not J50-40) Environmental Protection: IP22 **Power consumption:** 5 Watt (electronics only) Clutch/bypass load: Max 1,5 Amps Motor/solenoid drive: J50: 10 A continuous, 20 A for 5 seconds [50-40: 20 A continuous, 40 A for 5 seconds Vbat output: 1.5 A (automatic fused) Safe distance to compass: 0.5 m (1.6 ft.) Material: Anodized aluminum and black ABS cover **Temperature range: Operation:** -20 to +55°C (-13 to +130°F) Storage: -30 to +80°C (-22 to +176°F) Heading Sensor input: Composite pulse width modulated Rudder feedback input: Frequency signal, 3400 Hz, 20 Hz/degree Rudder feedback units: RF300S or RF45X NMEA input/output ports: Two External Alarm: Open collector 0.5A Mounting: Bulkhead-mount System selector Autopilot/Main steering system Potential free contact Heading output: Anritsu and Furuno radar display (clock/data)

Specifications subject to change without notice

