



# A2004 Autopilot





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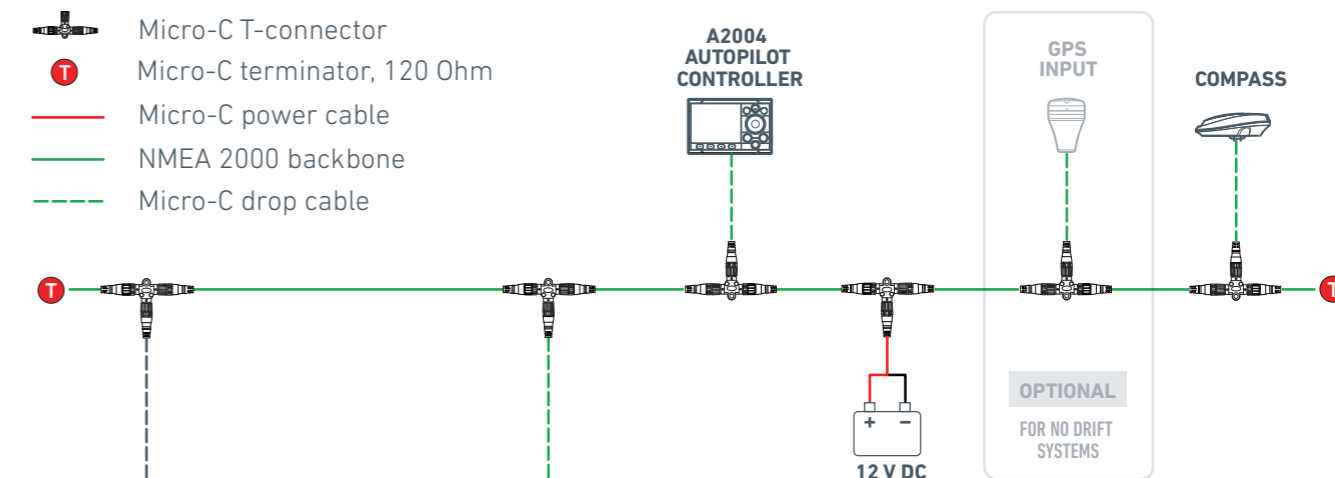
The A2004 autopilot system is designed to meet the needs of professional mariners aboard Workboats, Commercial Fishing Vessels, and Passenger Vessels.

It features a proven Simrad interface, presented on a wide-angle and zero-fog colour display. Engineered for responsiveness and ease of use, the A2004 pairs a precision rotary control dial with dedicated buttons for instant access to steering modes, a custom-configurable Work mode, and automated turn patterns.

The Simrad A2004 replaces the renowned AP35 and AP60, and is perfect for vessels that don't require SOLAS Heading Control Systems (where a Simrad AP70 or AP80 would be more suitable).



## SYSTEM CONFIGURATION



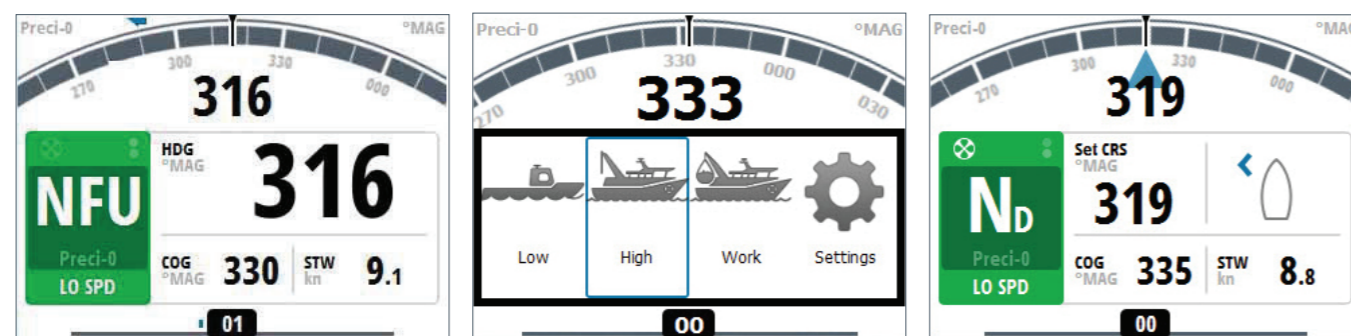
## FEATURES

- Proven Simrad interface designed for commercial marine applications
- Large, heavy-duty rotary control dial for precision steering
- Utilising Simrad Continuum Steering Technology -giving you the benefit of our 60 years of experience
- Optically bonded 4.1-inch colour display with 170-degree viewing angle
- Thruster integration & heavy-duty rudder feedback support
- Configurable work mode and low/high speed modes steering
- Automated turn patterns for fuel-efficient, hands-free manoeuvres
- No Drift steering holds course against wind and tide
- Flush or bracket mounting options
- Certified NMEA 2000® connectivity

Enhance your heading control system with a choice of full function remote controls:



The A2004 also integrates with the R3000X, S35, S9, and JS10.

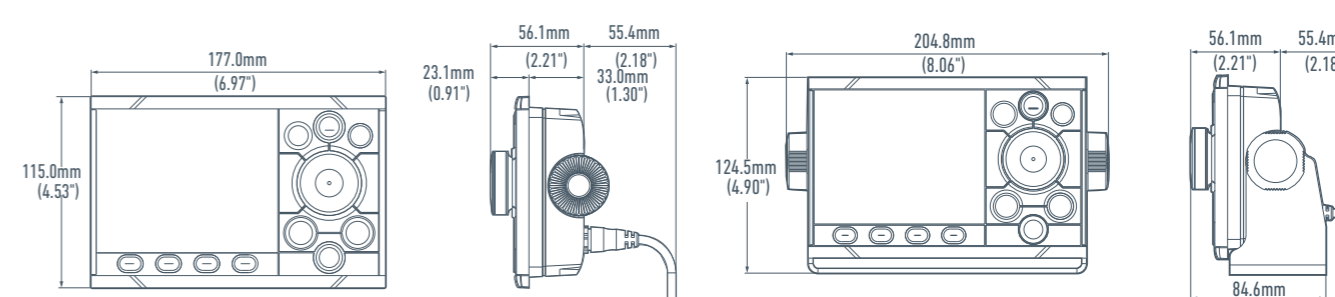


**Dedicated Professional User Interface:** Builds upon the proven user interface of the Simrad AP70 and AP80 professional autopilot controllers, and delivers consistency with the latest generation of Simrad products.

**Work mode:** Allows the autopilot system to be configured for optimal response in a specific situation, such as a fully laden vessel.

**No Drift Steering:** shows a visual representation of a thruster engaging.

## DIMENSIONS



Without bracket

With bracket

## SPECIFICATIONS

### A2004 Autopilot Controller

| Power                       |  |
|-----------------------------|--|
| Network Load                | 244 mA max<br>(Single Connection, powered by Network)                                    |
| Power Consumption (@13.5 V) | Key backlight off = 1.62W (0.12 A)<br>Key backlight max = 2.97W (0.22 A)                 |
| Environment                 |  |
| Temperature                 | Operating: -25° to +65°C (-13°F to +149 °F)<br>Storage: -40° to +85°C (-40°F to +185 °F) |
| Waterproof rating           | IPx7   |
| Mechanical                  |  |
| Dimensions                  | 177mm(Width) x 115mm (Height) x 56mm (Depth)   |
| Weight                      | .51kg (1.13 lb), without mounting bracket and suncover.                                  |
| Material                    | Plastic front & Rear, anodized aluminum rotary controller                                |
| Colour                      | Black  |
| Key Material                | Silicone Rubber  |
| Compass Safe Distance       | 0.4m   |
| Display                     |  |
| Size                        | 4.1" (diagonal). 4:3 Aspect ratio  |
| Type                        | Transmissive TFT-LCD. White LED backlight  |
| Bonded                      | Yes, Fog Free, 170° viewing angle  |
| Resolution                  | 320 x 240 pixels   |
| Illumination                | White for day mode. Red, green, blue, white or yellow for night mode                     |
| Networking                  |  |
| NMEA2000/CAN Bus            | Yes  |
| USB                         | Yes, on rear for software updates, settings export and screen shots                      |
| Interfaces                  |  |
| Number of drives            | One Rudder with AC70, one thruster with AD80/SD80  |
| Approvals                   |  |
| Approval List               | CE, RCM, NMEA2000  |

### AC70 (Main Computer)

| Power  |  |
|--|--|
| Local Supply                                   | 12/24 V DC, +30 - 10% Need 12 V CAN supply   |
| Consumption local supply                       | 100/65 mA at 12/24 V DC + load of connected equipment (motor, solenoids, clutch etc.)                            |
| NMEA 2000 Load Equivalent number (50 mA)       | 1  |
| Environment                                    |  |
| Temperature, operation                         | -15°C to +55°C (5°F to 131°F)  |
| Temperature, storage                           | -30°C to +70°C (-22°F to 158°F)  |
| Protection                                     | IPx2   |
| Mechanical                                     |  |
| Weight   | 1 kg (2.2 lbs)   |
| Size (length x width x height)                 | 211x60x180mm, 8.29x2.36x7.08   |
| Mounting                                       | Bulkhead   |
| Compass safe distance                          | 1 m  |
| Material                                       | Plastic front and anodized aluminum back   |
| Colour   | Black  |
| Cable inlet                                    | Slots: 9 x 95 mm and 18 x 45 mm<br>(0.4" x 3.7" and 0.7" x 1.8")   |
| Networking                                     |  |
| NMEA 0183, IEC 61162-1, IEC 61162-2, input     | 1 ch   |
| NMEA 0183, IEC 61162-1, IEC 61162-2, output    | 1 ch   |
| NMEA 0183, IEC 61162-1, IEC 61162-2, Baud Rate | 4.8 & 38.4 kBaud   |
| CAN BUS/NMEA 2000                              | Yes  |
| Interface                                      |  |
| Reversible motor control of rudder/thruster    | Max continuous load 30 A, peak 50 A for 1 sec  |
| On/off solenoid control of rudder/thruster     | 12/24 V DC, common lo, load range 10 mA to 10 A.<br>(Off state < 1 mA)   |
| "Engage" output for bypass/clutch              | 12/24 V DC, min 10 mA, max 3 A   |
| Rudder angle, frequency input                  | 15 V (out), 1.4 to 5 kHz, resol. 20Hz/°, center 3.4KHz   |
| NFU port/stbd input and mode indicator output  | External open/close contact, common ret, contact current max 30 mA   |
| Mode input                                     | External open/close or pulse contact for SYSTEM SELECT, common ret, close to activate, contact current max 30 mA |
| External alarm output for buzzer/relay         | Max 100 mA, voltage level as local supply  |
| EVC (Electronic Vessel Control) interface      | CAN via S605 Gateway   |
| Accessories                                    |  |
| Rudder Angle                                   | RF25, RF300, RF45X, RF70N  |
| Remote Controllers                             | FU80, NF80, QS80, R3000X, S35, S9, JS10  |

## GLOBAL SERVICE / 7-YEAR WARRANTY



When you choose a product from the Simrad Commercial product portfolio, you are automatically protected by our global Service and Support program. Our Service & Support program aims to provide the best possible experience, even on occasions when support or replacement is required.

### Comes with:

- 2 Year Warranty
- Extended Warranty Options
- 7 Year Upgrade Options
- Global Service Network

### + Certified Vessels include:

- 2 Year OnBoard Support
- 24 Hour Replacement

DISTRIBUTED BY

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