A2004 Autopilot

www.navico.com/commercial
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 AP40, and is perfect for vessels that don't require SOLAS Heading Control Systems (where a Simrad AP70 or AP80 would be more suitable).

**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 40 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
- 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

**SYSTEM CONFIGURATION**

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

- FUR0
- NF80
- GER0

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

**DIMENSIONS**

Without bracket

With bracket

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.
### SPECIFICATIONS

**A2004 Autopilot Controller**

<table>
<thead>
<tr>
<th>Power</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Load</td>
<td>244 mA max (Single Connection, powered by Network)</td>
</tr>
<tr>
<td>Power Consumption (@13.5 V)</td>
<td>Key backlight off = 1.62W (0.12 A)</td>
</tr>
<tr>
<td></td>
<td>Key backlight max = 2.97W (0.22 A)</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating: -25° to +65ºC (-13°F to +149 ºF)</td>
</tr>
<tr>
<td></td>
<td>Storage: -40° to +85ºC (-40°F to +185 ºF)</td>
</tr>
<tr>
<td>Waterproof rating</td>
<td>IPx7</td>
</tr>
<tr>
<td>Mechanical</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>177mm (Width) x 115mm (Height) x 56mm (Depth)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.51kg (1.13 lb), without mounting bracket and suncover.</td>
</tr>
<tr>
<td>Material</td>
<td>Plastic front &amp; Rear, anodized aluminum rotary controller</td>
</tr>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<tr>
<td>Key Material</td>
<td>Silicone Rubber</td>
</tr>
<tr>
<td>Compass Safe Distance</td>
<td>0.4m</td>
</tr>
</tbody>
</table>

**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, IEC, NMEA2000

### AC70 (Main Computer)

<table>
<thead>
<tr>
<th>Power</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Supply</td>
<td>12/24 V DC, +30 – 10% Need 12 V CAN supply</td>
</tr>
<tr>
<td>Consumption local supply</td>
<td>100/65 mA at 12/24 V DC + load of connected equipment (motor, solenoids, clutch etc.)</td>
</tr>
<tr>
<td>NMEA 2000 Load Equivalent number (50 mA)</td>
<td>1</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Temperature, operation</td>
<td>-15°C to +55°C (-5°F to 131°F)</td>
</tr>
<tr>
<td>Temperature, storage</td>
<td>-20°C to +70°C (-22°F to 158°F)</td>
</tr>
<tr>
<td>Protection</td>
<td>IPx2</td>
</tr>
</tbody>
</table>

**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 (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. (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 SG05 Gateway

**Accessories**

- Rudder Angle: RF25, RF300, RF43X, RF70N
- Remote Controllers: FUB0, NF80, GS86, R3000X, S35, 59, JS10

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### 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

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