

ARP11 – Armrest Panel for Autopilot



Excellence in Ship Control

Design

ARP11 Armrest Panel for Autopilot is designed to allow for easy control of the essential Autopilot functions from the navigator's armchair. The idea is to add more functionality and better ergonomics for the navigator, when operating the reliable SEM300 Autopilot.

Design Features

- Supports SEM300 Autopilot
- Ergonomically correct operation
- Easy to fit into armrest
- Low installation depth
- Front plate and panel cutout according to DIN norm
- Tested and approved according to the marine environmental standards of IEC60945/E10

Safety in design

It is important that safety is not compromised. Therefore, the Armrest Panel is operated by the use of pushbuttons and a rocker tiller, that are designed to avoid unwarranted actions by the navigator.

Pushbutton actuation

- The actuation force of 5.5N requires a firmly and determined pressure to actuate the push buttons.

Tiller actuation

- Any order confirmation in normal operation mode requires at least 2 clicks. Any changes made by the tiller must be confirmed by an EXECUTE to activate the set order.
- A feature is added clearly indicating when the tiller is in immediate mode.

ARP11 has similar layout and functional style as the SEM300 Autopilot Panel to avoid any possible confusion by the navigator.



ARP11 Panel View

92x92mm. panel cutout according to DIN norm

LED backlight and indication



Horizontal wire connections ensures low installation depth

2D Rocker Tiller for adjustment of orders

Total depth of 55mm. for easy fitting in the armrest



Bottom mounted panel avoiding visible screw mounts

96x96mm. front plate according to DIN norm



LED lamps (bars) on each button used for indication

Buttons

Call Remote: Track Control, ECDIS

Call Heading Radius: Mode buttons
- Take panel into control

Program Next: Easy toggling between ongoing order and programmed order

Execute: Simple order confirmation by one click

↓ ↑ Dimming



ARP11 in use

The basic use is to follow a route on the ECDIS going on straight legs and through turns. The Set Heading and preprogramming of turns, can be done from the Armrest Panel and executed when time is there, related to the ECDIS or other navigational screen.

When operating in an Autopilot control mode, only one unit is in control at a time, the Armrest Panel or the Autopilot Control Panel. The mode indicator is illuminated with a green LED light bar on the panel in control for visible recognition.

The Armrest Panel can be called into control like the SEM300 Autopilot control panel (MIP211) by pressing the desired mode: “Call Heading Radius” or “Call Remote” (see ARP11 Front View on the previous page). This can be done to take over the control or to change the Armrest Panel control mode.

SEM300 Autopilot

ARP11 can be used together with the SEM300 Autopilot and is installed directly to the Autopilot Electronic Unit via CAN-bus terminals or through a junction box.

SEM300 consists of:

- 1 Autopilot Control Panel (MIP211)
- 1 Autopilot Electronic Unit (AEU611)
- 1 Autopilot Cable (CE2MM)



SEM300 Autopilot brochure can be downloaded at www.emri.dk/brochures

- Coming Soon -

ARD11 – Armrest Display. A 5 inch vertical display that can be built into the same front plate for a slim line control panel.

- ARP11 & ARD11 together supports further integration of the SEM300 into the ECDIS – e.g. if approved in the TCS there is no need for having a SEM300 control panel.
- ARP11 can be used with or without the Armrest Display.

