















Preparations and start the system

- 1) Check – control panel:
 Ready-signal:
 **Green** → System ready 
 Off → Problem, check user interface
- 2) Check – user interface:
 - 1) Position-LED: **Green** → Position OK  
 Yellow/Red → Position not OK
 - 2) Ready-LED: **Green** → System ready  
 Red → Error
 Grey → Motor(s) not ready
- 3) Select **mode** on control panel → activates argoPositionPilot 
- 4) **Mode-icon** lights up **green** → System ready 

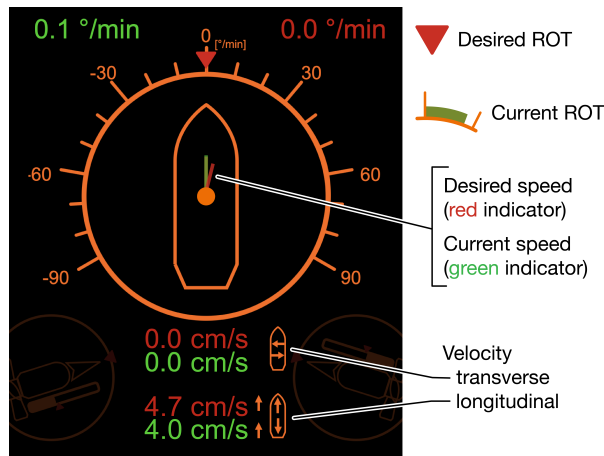
3 modes

-  **“Maneuver” mode**
 The “Joystick” function sets speed in chosen direction:
 - Forward: vessel sails forward
 - Sideways: vessel sails sideways
 - Turning: vessel turns
- ! WARNING: The vessel may drift due to wind and stream!**
- “Virtual Anchor” function
 - Joystick in the center → Vessel remains in position with its current heading.
 - argoPositionPilot reverts to “speed” mode when the joystick is moved.
-   **“Lock” & “Crash Stop” mode**
 - Not yet available.

User interface/menu



- argoControlPanel flex – minimized
 - Focus on status indicators and error message
- argoControlPanel flex – maximized
-  - Home: current state, rudder propeller, conning display with actual and set values.
 -  - Controller → controller gain:
 - Increase value: system becomes faster, but possibly also too aggressive.
 - Decrease value: system becomes slower, but more stable.
 -  - System settings: access to news, system information, language, help page, and remote maintenance.

Display “Home”



The system regulates the **current movement** of the ship to the **desired target state**. The target movement is specified using the joystick and displayed as a red indicator.








Check correct operation

- Check on the ECDIS, in the system interface, and visually (by looking out from the wheelhouse):
 -  Is the argoPositionPilot steering the vessel in the desired direction?
 -  Is it keeping the vessel in the desired position?

Potential error causes

- Drives ready?
 If not → Ready-LED off (grey in user interface)
- No GPS/no ROT-signal → Position-LED is red

Support

- Check system version and serial number
 → 
 - Allow **remote support** → 
 - Restarting the argoPositionPilot
 →  → 
-  **Support Hotline**
 +49 711 25253721
 Mo.-Fr. 09:00-16:00

argoPositionPilot – warnings and alarms

Name	Description	Actions	Name	Description	Actions
Position inaccurate	Error detection of the filter for the measured values (here: position) has detected an error.	<ul style="list-style-type: none"> • Acknowledge warning • Wait until the warning clears automatically. 	Position unusable: Take control	The evaluation of the GPS data has detected an issue, such as a sudden jump in position or heading. This may be caused, for example, by passing under a bridge.	<ul style="list-style-type: none"> • Acknowledge the alarm. This can only be done by deactivating the argoPositionPilot • Wait until the “Position” status in the user interface is green • Check whether the vessel’s position and heading in the chart display match reality • Activate the argoPositionPilot • Increased vigilance • Continue manually if necessary
GPS (2): No position received	GPS receiver not sending GGA data/GPS2 receiver not sending GGA data	<ul style="list-style-type: none"> • Acknowledge warning • Monitor the proper functioning of the argoPositionPilot • Increased vigilance • Wait to see if data reception resumes • Continue manually if necessary • Reset the warning or wait until it clears automatically 			
GPS (2): No velocity received	GPS receiver not sending VTG data/GPS2 receiver not sending VTG data	<ul style="list-style-type: none"> • Acknowledge warning • Monitor the proper functioning of the argoPositionPilot • Increased vigilance • Wait to see if data reception resumes • Continue manually if necessary • Reset the warning or wait until it clears automatically 	System Error 002 - Contact support	The control system is experiencing a serious problem.	<ul style="list-style-type: none"> • Shut down immediately • Check the correct functioning of all devices • Contact customer service
GPS (2): No heading received	GPS receiver not sending HDT data/GPS2 receiver not sending HDT data	<ul style="list-style-type: none"> • Acknowledge warning • Monitor the proper functioning of the argoPositionPilot • Increased vigilance • Wait to see if data reception resumes • Continue manually if necessary • Reset the warning or wait until it clears automatically 			
argoPositionPilot switched off	The argoPositionPilot was unexpectedly switched off	Activate argoPositionPilot again if required Check correct function of all devices			
No ROT received	No rate of turn received	Check that all devices are functioning correctly. If this warning does not clear automatically, contact customer support.			