argoTrackPilot – quick start guide
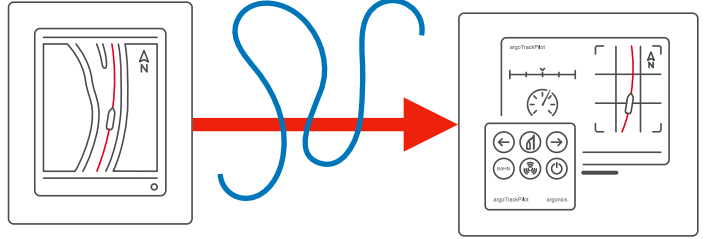
Preparation
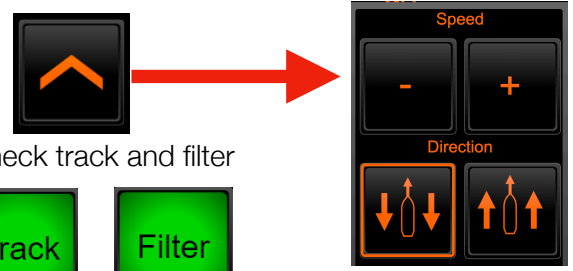
1. Choose track from ECDIS or in TrackPilot

2. Choose profile

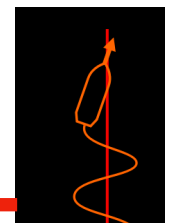| 2Reihe1 Reihe2	2Reihe1 Reihe2	3Reihe1 Reihe2	4Reihe1 Reihe2	5Reihe1 Reihe2
6Reihe1 Reihe2	7Reihe1 Reihe2	8Reihe1 Reihe2	9Reihe1 Reihe2	10Reihe1 Reihe2

3. Set stream velocity

Speed

− +

Direction

4. Check track and filter

Track   **Filter**

5. Turn on trackpilot mode

Permanent track deviation

! Permanent track deviation

! **Check stream settings**

?

No   **23.1**   0 °/min   8.9

1.
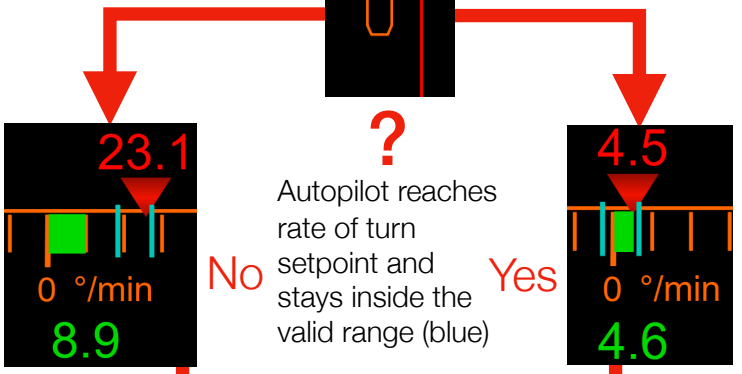
Autopilot reaches rate of turn setpoint and stays inside the valid range (blue)

Yes   **4.5**   0 °/min   4.6

2.

ROER

Controller Gain

0.0   0.5   1.0   1.5   2.0
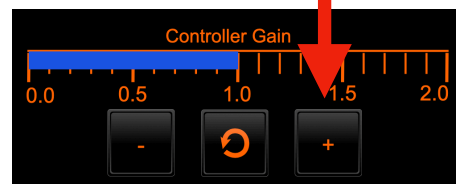
1. Increase „Rudder" on autopilot
2. Increase „Controller Gain" on trackpilot
3. Check rate of turn signal

Deviation in curves

! **Check stream settings**

Too far on inside of curve

Too far on outside of curve

!

Change drift gain
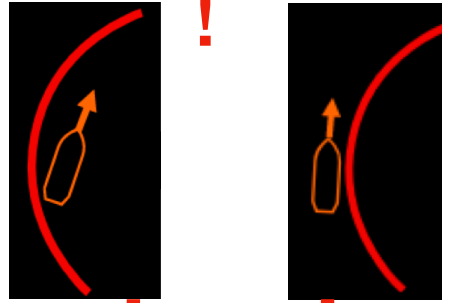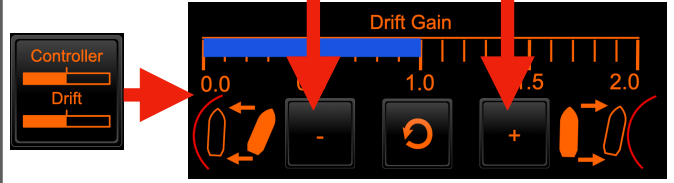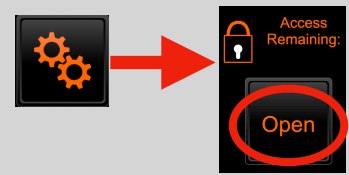
Controller / Drift

Drift Gain

0.0   1.0   1.5   2.0

−   +

Test for a few minutes and adjust further if necessary

Oscillations

! Oscillations around guiding line

! **Check stream settings**

Lower „Controller Gain"

Controller Gain

0.0   0.5   1.0   1.5   2.0

−   +

Test for a few minutes and adjust further if necessary

Miscellaneous

Checking system version

System version 3.1

Deactivating firewall

Access Remaining:

Open

Restarting trackpilot (and touchscreen)
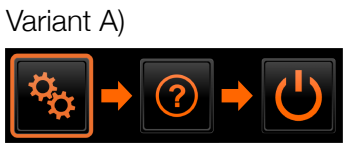
Variant A)   Variant B)

Watch alarm settings

2x

Controller / Drift

Watch alarm

Active

Delay

0.0   2.5   5.0 min   7.5   10.0

−5   −0.5   +0.5   +5
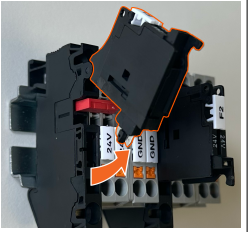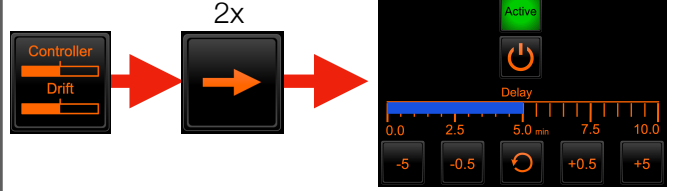
Download manual

Customer support:

+49 711 25253721   **argonics**

argoTrackPilot – warnings and alarms

Warning Name	Action
Close to end of track	• Switch to manual steering • Choose new guiding line
Position inaccurate	• Wait for the warning to disappear • If EstimationDegraded error comes up switch to manual steering
Distance to track large	• Check if the autopilot system processes the commands by the track control system • Acknowledge warning
GPS (2): No position received	• Acknowledge warning • Closely monitor track control system for correct operation • Increase attention • Wait if data comes back • otherwise switch to manual steering
GPS (2): No velocity received	• Acknowledge warning and closely monitor track control system for correct operation • Error persists after 10 minutes? ➡ Contact support, if nec. switch to manual steering
GPS (2): No heading received	• Acknowledge warning and closely monitor track control system for correct operation • Error persists after 10 minutes? ➡ Contact support, if nec. switch to manual steering
Velocity low	• Increase velocity • Acknowledge warning
Dead man warning	• Move Track or click any button on the touch display
Target close	• Decrease velocity or deactivate TargetPilot or select different target
Target lost	• Closely monitor track control system for correct operation
AIS: No data received	• TargetPilot active? ➡ Closely monitor track control system for correct operation Malfunction of AIS? ➡ immediately deactivate TargetPilot
Collision ahead	• Move current track • Wait until the ship has reached the shifted line
Power supply connected incorrectly	• Contact dealer/installer
TrackPilot switched off	• Activate TrackPilot again if required • Check correct function of all devices
End of SafetyContour ahead	• Select new safety corridor
PS/SB limit violated	• Move the track to keep the planned path within the safety corridor
No ROT received	• Check the correct function of all devices. • If this warning does not disappear by itself, contact support.
ECDIS / Alphatron Display: connection lost	• (Re-)Start the ECDIS / Alphatron Display. • If this warning does not disappear by itself, contact support.
AIS: Error - Contact support	• (Re-)Start the AIS. • If the warning does not disappear by itself, contact support.

Alarm Name	Action
Track too far away	• Switch to manual steering • Check if the correct guiding line has been chosen • Choose another line closer to the current position
End of track reached	• Immediately switch to manual steering • Choose new guiding line
Turn too sharp	• Switch to manual steering • Check guiding line for errors (points very close together) • Choose new guiding line
Rudder change too large	• Acknowledge alarm by switching to manual steering. • Wait until state of track control system returns to „READY". • Check in ECDIS if ship position on map and reality match. • Switch on track control system • Increase attention
Position unusable	• Acknowledge alarm by switching to manual steering. There is no other way to acknowledge the alarm. • Wait until state of track control system returns to „READY". • Check in ECDIS if ship position on map and reality match. • Switch on track control system • Increase attention
Dead man alarm	• Acknowledge alarm by switching to manual steering. • Activate TrackPilot mode again
Target too close	• Acknowledge alarm • Continue manually and increase distance to AIS target or deactivate TargetPilot
Target lost	• Acknowledge alarm by switching to manual steering. There is no other way to acknowledge the alarm. • Continue manually and select new AIS target or deactivate TargetPilot
Collision ahead	• Acknowledge alarm by switching to manual steering. There is no other way to acknowledge the alarm. • Continue to steer manually and avoid collision • In case of false alarm, check the setting of the argoLaneWarning
Autopilot connection lost	• Switch off immediately • Check correct function of all devices • Contact customer support
I/O: Error - Contact support	• Switch off immediately • Check correct function of all devices • Contact customer support
System Error 001/002/003 - Contact support	• Switch off immediately • Contact customer support