H5000 Pilot Controller
Quick Reference Guide

B&G
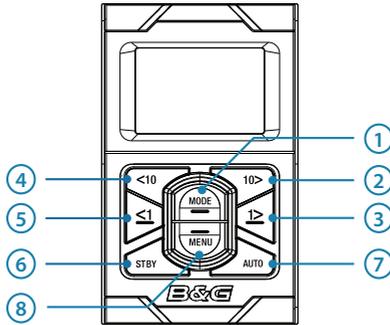
| Keys	
1	**MODE** key: Change the autopilot mode / Scroll up in menu options / Increase values. With active Autopilot: Toggle between Wind mode and Auto mode.
2	**10> Course Control Starboard (10°):** Change target course 10º Starboard / Activate Non Follow Up (NFU) mode when in Standby mode.
3	**1> Course Control Starboard (1°):** Change target course 1º Starboard / Activate Non Follow Up (NFU) mode when in Standby mode / Enter menu.
4	**<10 Course Control Port (10°):** Change target course 10º Port / Activate Non Follow Up (NFU) mode when in Standby mode.
5	**<1 Course Control Port (1°):** Change target course 1º Port / Activate Non Follow Up (NFU) mode when in Standby mode / Exit menu.
6	**STBY** key: Disengage the autopilot. The autopilot will go into Standby mode and you will be required to take manual control of the helm.
7	**AUTO** key: Engage the autopilot. The autopilot will steer the boat on the current selected heading.
8	**MENU** key: Enter the main menu / Scroll down in the menu options / Decrease values. Press and hold for 3 seconds enters the lighting settings.

Backlighting
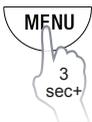
From the backlight level screen, press the **MODE** key to increase the brightness level, or the **MENU** key to decrease the brightness level (1-10).
The light level selection times out after 2 seconds.

Menu navigation

 Single press of the **MENU** key will open the main menu.

Key	Action
	Open highlighted menu option
	Return to previous menu - continued presses will return the display to the navigation screen
	Scroll up
	Scroll down

➔ *Note:* If no selection is made after 10 seconds, the screen will revert to the autopilot status screen. A single press of the **STBY** key (at anytime) will exit the menu and switch the autopilot to Standby mode.

Response menu

The upper part of the screen shows the selected response setting.

The Response settings control the response of the autopilot steering. There are five performance response settings. Setting Perf1 consumes the least amount of power when steering the autopilot and offers the slowest response. Setting Perf5 consumes the most power and has the highest response.
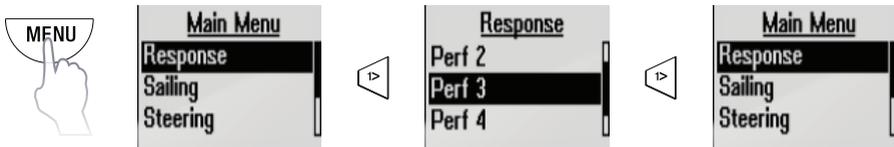
Auto response settings

The Auto response settings control the rate at which the autopilot reacts to any environmental influences on the vessel's desired heading. There are four options available:

Off	The autopilot will always remain in the response setting selected
Economy	The autopilot will need to sense large environmental changes before increasing the response setting
Normal	The autopilot will respond to moderate environmental changes state before increasing the response setting
Sport	The autopilot will be most sensitive to changing conditions and will automatically increase the response setting to counter environmental changes

Recovery function

The Recovery function allows the user to set the sensitivity to course errors and how the autopilot will react to unexpected events, for example sudden wave or wind shifts. This function allows the autopilot to instantaneously increase the steering response to its maximum setting (Perf 5), and make a rapid recovery.
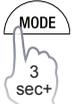
The Recovery function will automatically switch off after 15 seconds or when the heading error has been corrected. The autopilot will then resume the previous response setting and continue normal operation. There are four options available.

| Off	The Recovery function is switched off
Narrow	The autopilot is most sensitive to sudden course changes corrected
Medium	The autopilot is configured to the medium value when correcting sudden course changes
Wide	The autopilot is least sensitive to sudden course changes

Autopilot modes

The current heading and set heading information will change on the display depending on which mode the pilot is in. Below is a list of the autopilot modes and their symbols, and the current/target data that will be displayed.

Mode	Symbol	Description	Required Input
Standby	S	Passive mode used when manually steering the boat at the helm	
Auto	A	Keep the boat on set heading	Heading
		Cancel a turn and continue on the heading read from the compass	
Wind	W	Steer the boat to maintain the target wind angle	Heading, Speed, Wind Angle
NoDrift	ND	Steer the vessel on a straight bearing line by compensating for drift	Heading, Position
Navigation	N	Steer the boat to a specific waypoint location, or along a route	Heading, Speed, Position, Waypoint, Route information
Non Follow Up	NFU	Steer the boat manually using the autopilot controller	

Standby

Perf1
S 182 °T
00
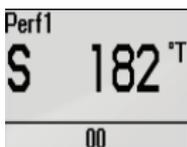
Standby mode
Compass heading

NFU

Perf1
NF 126 °T
00

Non Follow Up mode
Compass heading

AUTO

Perf1   187
A 169 °T
00

Set heading
Current compass heading

NAV

Perf1   ⚠ 151
N 183 °T
XTD 0.09 NM
■12

Bearing to next waypoint
Cross track distance (XTD),
analog and graphical

WIND

Perf1 ◆ 71° AWA
W 162 °T
00

Target Wind angle
Current Wind angle

NoDrift

Perf1 ⚠Set CRS
Nd 041
COG 042
01
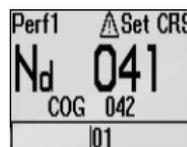
Set course
Course Over Ground (COG)

> ⚠️ **Warning:** In Standby mode, pressing any of the directional keys will engage the auto-pilot in Non Follow Up mode!

Mode selection

From Standby mode, pressing the **AUTO** key once will enter Auto mode. Whilst in Auto mode, a single press of the **MODE** key will set the autopilot to Wind mode. Pressing the **MODE** key again will revert to Auto mode.

To access other autopilot modes, press and hold the **MODE** key for 2 seconds. Then highlight the required mode and press the **1º >** key to confirm.

→ *Note:* The mode selection menu will time out after a few seconds. Whichever mode is highlighted at this time will be selected.
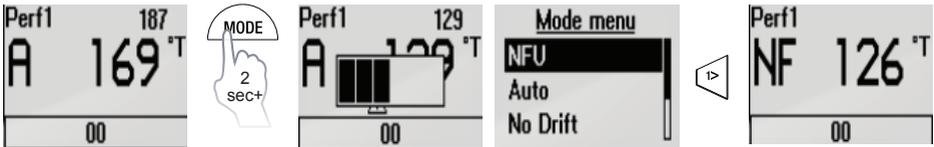
Non Follow Up mode

Whilst in Standby mode, pressing any of the **Course Control** keys will move the rudder to your desired angle and change the autopilot mode to Non Follow Up.

Non Follow Up mode allows you to control the rudder position manually via the autopilot controller.

→ *Note:* The autopilot will remain in Non Follow Up mode until it is disengaged by pressing the **STBY** key or a new mode is selected.

Tacking & Gybing in Wind mode

Tacking & Gybing in Wind mode can be performed when sailing with apparent or true wind as the reference; the true wind angle must be less than 90 degrees (tacking) or more than 120 degrees (gybing).

The tacking/gybing operation will mirror the target wind angle on the opposite tack and a tack confirmation window will appear on the display.

To tack or gybe in Wind mode, press both **1° Course Control** keys on the autopilot controller simultaneously. Hold them down until the confirmation window appears. Press **1º >** to confirm, **1º <** to cancel.
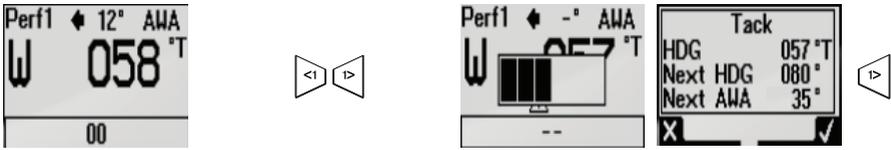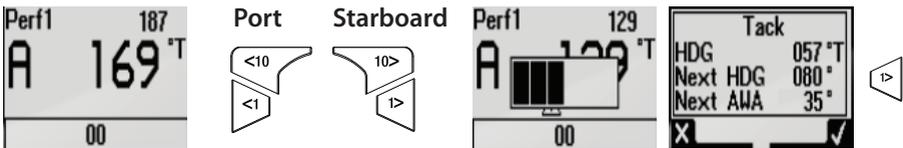

The rate of turn during the tack/gybe is set by the Tack time parameter in the Setup/Sailing menu. The tack/gybe time is also related to the speed of the boat to prevent excessive loss of speed during a tack.

➔ *Note:* The autopilot will temporarily add a 5 degree bear-away on the new tack to allow the boat to pick up speed. After a short period the wind angle will return to the set angle.

If neither Tack/Gybe nor Cancel is selected the tack/gybe pop up will close after 10 seconds and the requested tack/gybe will not be initiated.

Tacking & Gybing in Auto mode

To tack in Auto mode, press and hold the Port **10 & 1º Course Control** keys to set a tack to Port, or the Starboard **10 & 1º Course Control** keys to set a tack to Starboard.

The rate of turn during the tack/gybe is set by the Tack time parameter in the Setup/Sailing menu. The change in course is controlled by the tack angle parameter in the Setup/Sailing menu.

➔ *Note:* Default tack angle setting is 100 degrees.