

**SIMRAD**

# O2000 Controller

## User Guide

ENGLISH





## Introduction

The O2000 Controller is designed to take remote control of up to 4 radar control units.

You can have more than one O2000 Controller on the network.

→ **Note:** The O2000 Controller cannot be used for MFD control.

## Technical specifications

→ **Note:** For updated technical specifications, compliance and certifications, refer to our website.

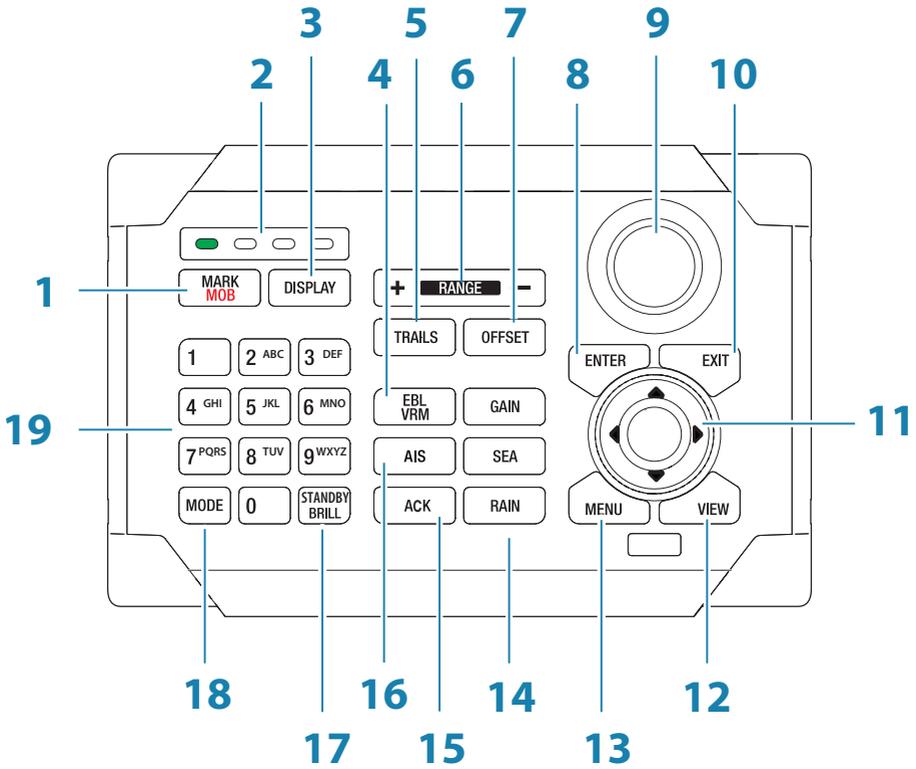
Weight & Dimensions	
Dimensions	107 mm x 160 mm (H x W) 4.2 in x 6.3 in (H x W)
Weight	0.3 kg (0.7 lbs)
Power	
Power supply	12 V DC (Micro-C)
Current consumption	<100 mA : 2 LEN
Data	
Micro-C	Rear connector (Male Micro-C)
Network	NMEA 2000
Technical	
Keypad beeper	>80 dBA @ 0.5 m
Backlight	White or Red (Same as main radar control unit)
Environmental protection	IPX6

## Compliance statements

Simrad O2000 Controller complies with:

- CE under EMC directive 2014/30/EU
- the requirements of level 2 devices of the Radiocommunications (Electromagnetic Compatibility) standard 2008

## Front panel and keys



No.	Description
1	<p>MARK/MOB key. Press once to mark a waypoint at the vessel's position, or at the cursor position. Press and hold to position a Man Over Board waypoint at the vessel's current position.</p> <p>➔ <b>Note:</b> The key will only create waypoints on your networked MFD. It will not create waypoints on the radar console.</p>
2	<p>Unit under command LEDs. Indicates which display the O2000 Controller is controlling.</p>
3	<p>DISPLAY key. Press once to toggle through displays that are configured for the control of the O2000 Controller. Press and hold to turn the O2000 Controller to configuration mode.</p>
4	<p>EBL/VRM key. Press once to toggle EBL/VRM markers On/Off. Press and hold to toggle between EBL/VRM 1 and EBL/VRM 2. Double press to display the EBL/VRM pop-up.</p>
5	<p>TRAILS key. Press once to display the Trails menu.</p>
6	<p>RANGE key. Press the + or the - indication to increase or decrease the radar range.</p>
7	<p>OFFSET key. Press once to display the Offset menu.</p>
8	<p>ENTER key. With no menu active: press to display options for managing radar and AIS targets. Menu operation: press to select an option.</p>
9	<p>Rotary knob. With no menu active: behavior depending on operational mode. Menu operation: rotate to scroll through menu items and to adjust values; press to select or to save settings.</p>
10	<p>EXIT key. With no menu active: no action. Menu operation: press to return to previous menu level or to exit a dialog.</p>
11	<p>Arrow keys. With no menu active: press to move the cursor on the radar PPI. Menu operation: press to move through menu items and to adjust a value.</p>
12	<p>VIEW key. Press once to display the View menu.</p>
13	<p>MENU key. Press once to display the Main menu.</p>
14	<p>GAIN, SEA, and RAIN keys. Press to set radar sensitivity.</p>
15	<p>ACK key. Press once to acknowledge the most recent alarm or warning in the Alerts panel. Subsequent presses on the key will continue to acknowledge alarms or warnings on a last raised, first acknowledged basis. Press and hold to bring the focus on the Alerts panel without acknowledging the most recent alarm.</p>
16	<p>AIS key. Press to activate/deactivate AIS information on screen.</p>

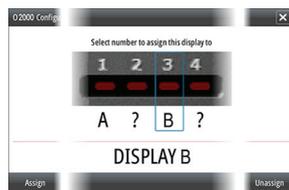
No.	Description
17	STANDBY/BRILL key. Press once to display the Standby/Brightness pop-up. Press twice to toggle between Standby and Transmit. Press and hold to switch the radar system On/Off.
18	MODE key. Press once to display the radar Use Modes menu.
19	Alpha numeric keypad. Used for entering numbers or text in dialog boxes. With no menu active: press a key on the keypad to modify the range displayed on the radar PPI:

Key	1	2	3	4	5	6	7	8	9	0
Radar Range (NM, mi)	1/8	1/4	1/2	3/4	1.5	3	6	12	24	48
Radar Range (km)	1/4	1/2	3/4	1.5	3	6	12	24	48	96

## Configuring the O2000 Controller

From the factory the O2000 Controller is not assigned to control any radar control units. It will not be responsive until it has been assigned to control a radar control unit on the network.

1. Turn ON all radar control units that are to be configured for O2000 control
2. Press and hold the **DISPLAY** key on the O2000 Controller for 5 seconds to enter O2000 Controller configuration mode
  - All LEDs on the O2000 Controller turn red to indicate that the O2000 Controller is in configuration mode.
  - The configuration dialog is displayed on all radar control units.



*Active assignment dialog*



*Passive assignment dialog*

3. Press the **DISPLAY** key until the radar control unit to be assigned shows the active assignment dialog

→ **Note:** The radar control units are identified with letters for assignment purpose. These letters are random and not in any particular order.



4. Press the **1, 2, 3** or **4** key on the O2000 Controller to assign active radar control unit to LED position 1, 2, 3 or 4 respectively
  - It is logical to assign LED(s) 1 through 4 (left to right) to units moving from left to right.
5. Press the **MENU** key and select the Assign option to assign active radar control unit to a LED position on the O2000 Controller
6. Press the **DISPLAY** key until the next radar control unit to be assigned shows the active assignment dialog
  - Already assigned radar control units will now show the passive assignment dialog.
7. Repeat step 3 and 4 until all radar control units are assigned to a LED
8. Press the **EXIT** key to save your settings and return to normal operation

### Unassigning a Radar control unit from an O2000 Controller

1. Press and hold the **DISPLAY** key for 5 seconds to enter O2000 Controller configuration mode
  - All LEDs on the O2000 Controller turn red to indicate that the O2000 Controller is in configuration mode.
  - The configuration dialog is displayed on all radar control units.
2. Use the arrow keys or the rotary knob to select which radar control unit is to be unassigned
  - Selected radar control unit is identified with a border.
3. Press the **MENU** key to display the menu, and select the Unassign option
4. Press the **EXIT** key to save your settings and return to normal operation



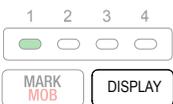
### Configuring the next O2000 Controller

Press and hold the **DISPLAY** key for 1 second to take command of another O2000 Controller in configuration mode.

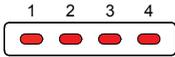
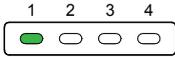
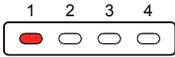
### Selecting which radar control unit to control

Press the **DISPLAY** key to toggle through the LEDs.

Once a LED has green steady light the O2000 Controller is in control of the radar control unit assigned to that LED.



## O2000 Controller LEDs

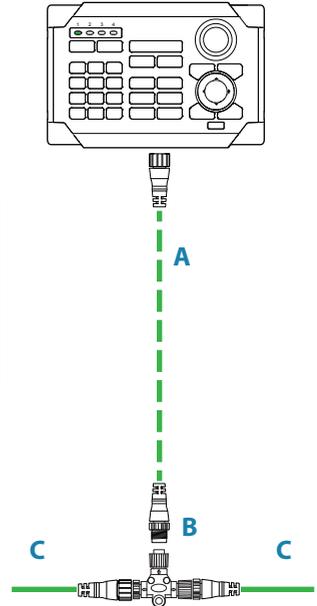


Color/Status	Description
Red - steady	No radar control unit assigned to the LED position, or the radar assigned to the LED position is powered OFF.
Green - flashing	Radar control unit assigned to the LED position is powering up.
Green - steady	Radar control unit assigned to the LED position is ON and ready for O2000 control.
All LEDs Red - steady	The O2000 Controller is in configuration mode.

## Wiring

### CAN BUS (NMEA 2000)

A	Female-Male Micro-C drop cable
B	Micro-C T-connector
C	CAN BUS (NMEA 2000) backbone



→ **Note:** NMEA 2000® and the NMEA 2000 logo are registered trademarks of the National Maritime Electronics Association.



**SIMRAD**



For regulatory compliance certificates  
and declarations, refer to the product  
website on:



[www.navico-commercial.com](http://www.navico-commercial.com)

