

## G-Series Command Center Keyboard

### Installation instructions



#### Product installation

This equipment must be installed and operated in accordance with the Raymarine instructions provided. Failure to do so could result in poor product performance, personal injury, and/or damage to your boat.



#### Service and Maintenance

This product contains no user serviceable components. Please refer all maintenance and repair to authorized Raymarine dealers. Unauthorized repair may affect your warranty.



#### Ultra violet light

To provide protection against the damaging effects of ultra violet (UV) light, the sun cover should be placed on the unit when not in use.



#### Cleaning

DO NOT use acid, ammonia based or abrasive products.  
DO NOT use commercial high pressure washing (jet wash) equipment.

### Waste Electrical and Electronic Equipment Directive



The Waste Electrical and Electronic Equipment (WEEE) Directive requires the recycling of waste electrical and electronic equipment. Whilst the WEEE Directive does not apply to some of Raymarine's products, we support its policy and ask you to be aware of how to dispose of this product.

The crossed out wheeled bin symbol, illustrated above, and found on our products signifies that this product should not be disposed of in general waste or landfill.

Please contact your local dealer, national distributor or Raymarine Technical Services for information on product disposal.

### Disclaimer

The technical and graphical information contained in this document, to the best of our knowledge, was correct as it went to press. However, our policy of continuous improvement and updating may change product specifications without prior notice. As a result, unavoidable differences between the product and handbook may occur from time to time. Raymarine cannot accept responsibility for any inaccuracies or omissions it may contain. For the latest product information visit our website - [www.raymarine.com](http://www.raymarine.com)

### EMC installation guidelines

Raymarine equipment and accessories conform to the appropriate Electromagnetic Compatibility (EMC) regulations. This minimizes electromagnetic interference between equipment, which could otherwise affect the performance of your system.

Correct installation is required to ensure that EMC performance is not compromised.

For optimum EMC performance, we recommend that:

Raymarine equipment and the cables connected to it are:

- i. At least 3 ft. (1 m) from any equipment transmitting or cables carrying radio signals e.g. VHF radios, cables and antennas. In the case of SSB radios, the distance should be increased to 7 ft. (2 m).
- ii. More than 7 ft. (2 m) from the path of a radar beam. A radar beam can normally be assumed to spread 20 degrees above and below the radiating element.

- Raymarine specified cables are used.
- Cables are not cut or extended.

Always allow the maximum separation possible between different items of electrical equipment. This will provide the best conditions for EMC performance for the installation.

### Technical specification

Approvals:	
CE - conforms to	EN60945, EN300-440-2
FCC- conforms to	CFR47 PART 15
Additional conformance	IC-RSS-210
Size	297 x 98 x 46
Weight	0.65 kg
Mounting	Dash mount Handheld (with optional wireless upgrade)
Supply voltage	9 V to 16 V
Power consumption	1.5 W
Environmental conditions:	operating temperature: -15°C to 55°C (5°F to 131°F) non-operating temperature: -25°C to 70°C (-13°F to 158°F) relative humidity limit: 95% water protection: waterproof to CFR-46 standard
Storage conditions when packed:	Temperature : -25°C to 55°C (-13°F to 158°F) relative humidity: 75%
LEN	3

#### Raymarine plc

Anchorage Park,  
Portsmouth,  
Hampshire PO3 5TD  
United Kingdom

Tel: +44 (0) 23 9269 3611  
Fax: +44 (0) 23 9269 4642

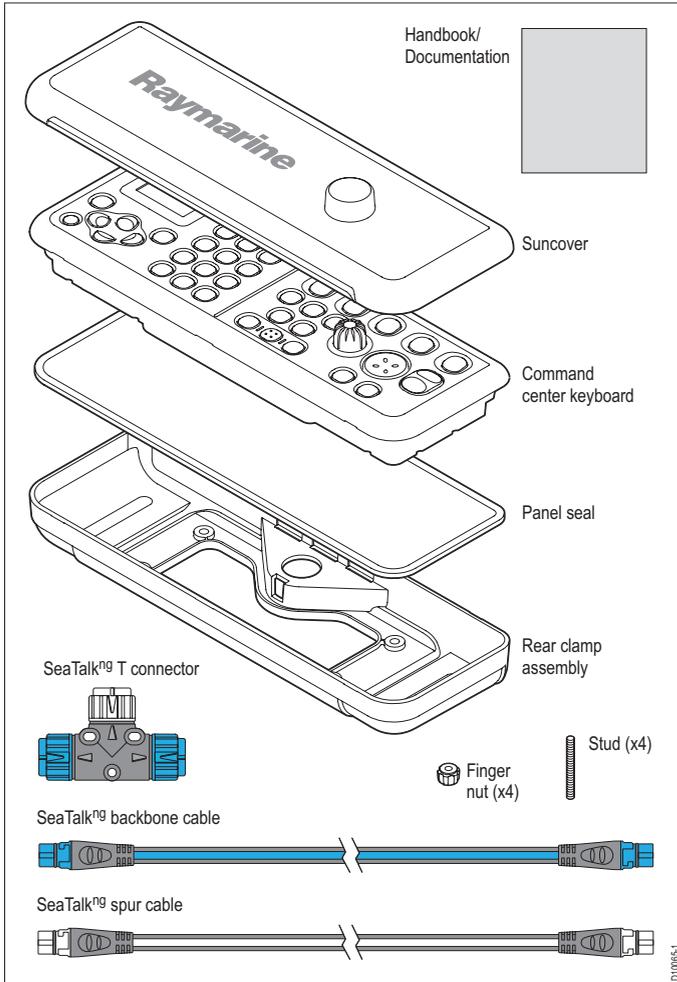
#### Raymarine Inc.

21 Manchester Street,  
Merrimack,  
New Hampshire 03054-4801  
USA

Tel: +1 603.881.5200  
Fax: +1 603.864.4576

[www.raymarine.com](http://www.raymarine.com)

## Pack items



Description	Part No.
G-Series command center keyboard	E02044
Sun cover	R08307
1 m (3.3 ft) SeaTalk <sup>N9</sup> /NMEA2000 cable	A06039
400 mm (15.75 in) SeaTalk <sup>N9</sup> backbone cable	A06033
SeaTalk <sup>N9</sup> T-piece connector	A06028
Rear cover / mounting bracket	R08308
Screw pack	R08309
Installation sheet	87084
Warranty booklet	80017

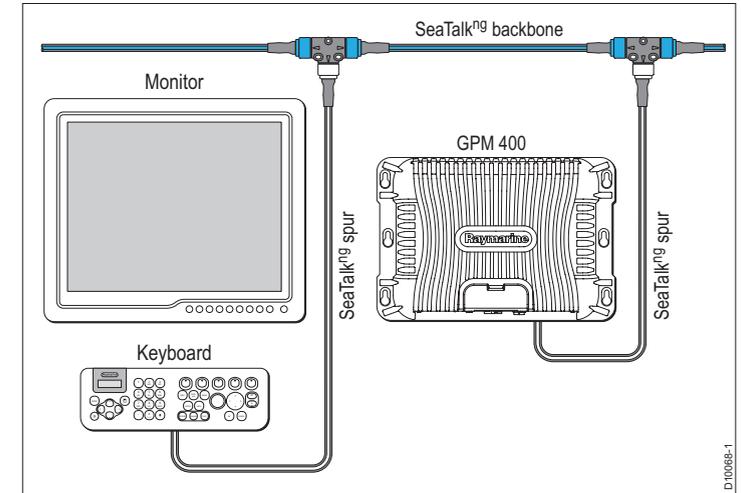
## G-Series system

The Keyboard is installed as a part of the Raymarine G-Series marine electronics system.

Refer to the additional documentation supplied with your G-series GPM400 processor for additional information necessary to install the keyboard within your system.

All documents can be downloaded from [www.raymarine.com/handbooks](http://www.raymarine.com/handbooks).

## G-Series System



### Maximum quantity of Keyboards

The G-Series system will support up to 8 keyboards.

### G-Series system documentation

Title	Part number
G-Series system installation and commissioning Instructions	87070
G- Series system operating guide	86126
G-Series system user reference guide	81276

## Keyboard connections

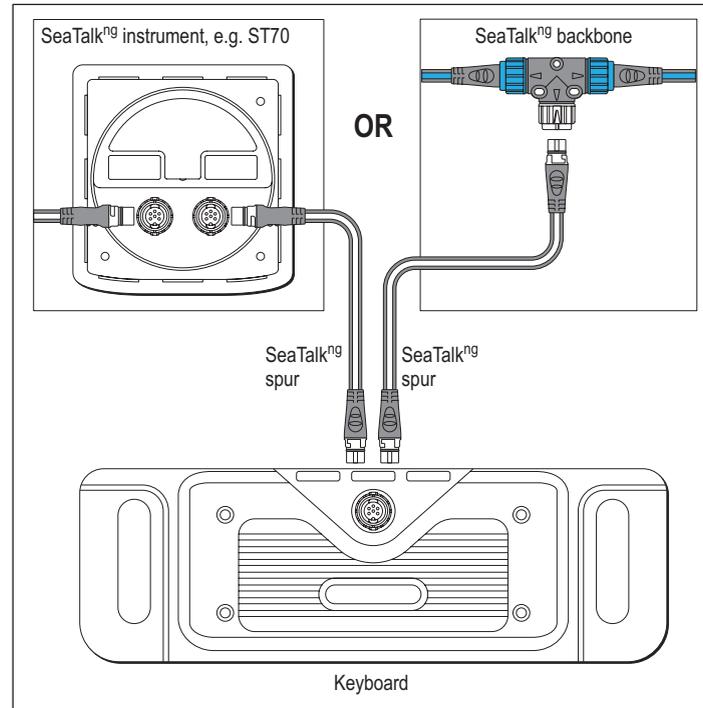
The G-Series Keyboard communicates using the SeaTalk<sup>ng</sup> system. It may be connected directly to the backbone (wired) or used remotely with a separate basestation and wireless upgrade kit.

**Note:** You should have at least one permanently wired keyboard. In the event that any wireless keyboards are lost, the wired keyboard can be used to control the system.

### Schematic diagram

When connecting a keyboard to the system, record its details on your system/schematic diagram. You will need this information during commissioning. (Refer to the separate G-Series system installation instructions for sample diagrams.)

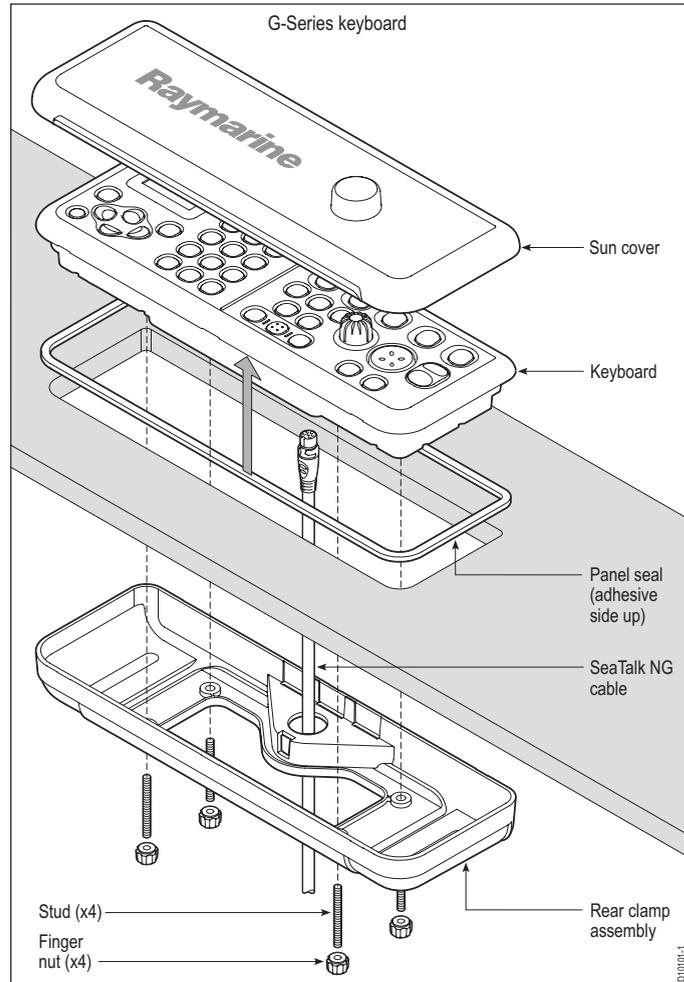
### Keyboard connection details



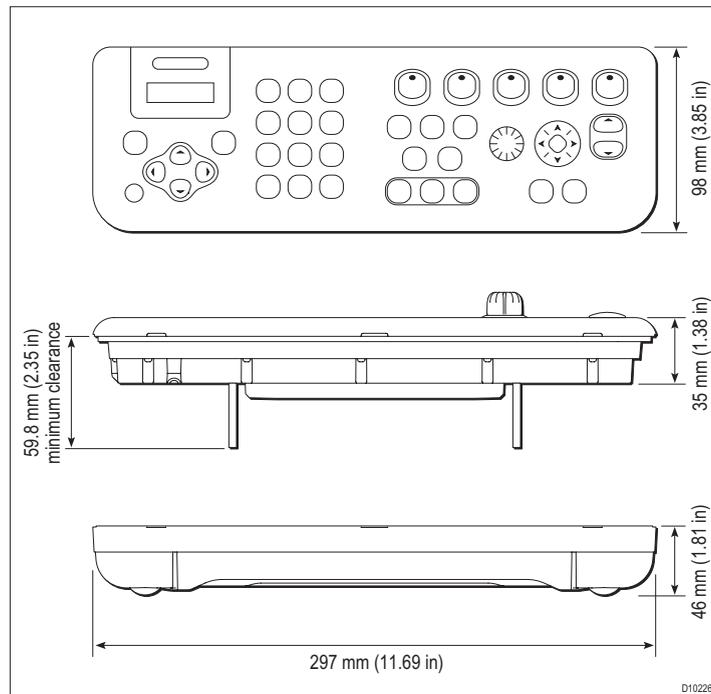
### Keyboard cables

Cable	Part Number	Notes
<b>Keyboard to SeaTalk<sup>ng</sup></b>		
400 mm (15.75 in) SeaTalk <sup>ng</sup> spur cable	A06038	
1 m (3.3 ft) SeaTalk <sup>ng</sup> spur cable*	A06039*	Supplied with the keyboard
3 m (9.8 ft) SeaTalk <sup>ng</sup> spur cable	A06040	
5 m (16.4 ft) SeaTalk <sup>ng</sup> spur cable	A06041	

## Mounting arrangement



## Dimensions



## Mounting and environment

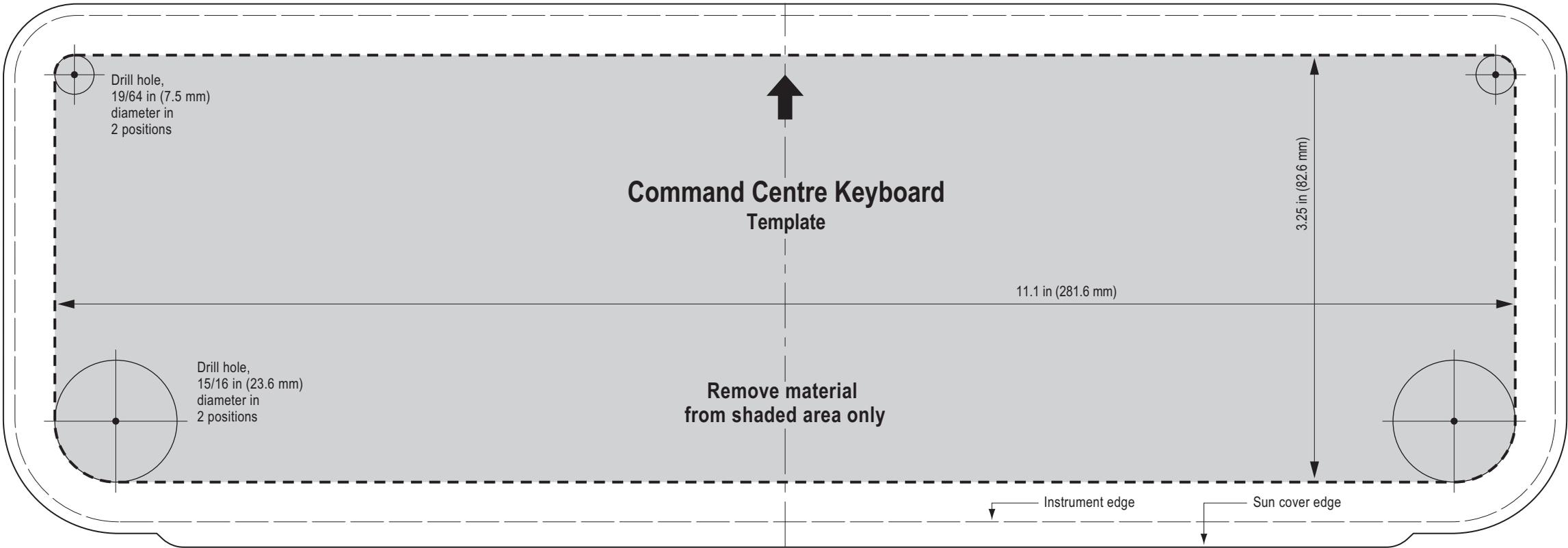
- The keyboard is suitable for mounting both above and below decks. It is waterproof to CFR-46 standard.
- Use the cutting template provided within this booklet.
- Connect cable into keyboard before clamping in place.

The following conditions apply:

- Do NOT install near sources of heat. (e.g. engine).
- Install the unit well away from potential sources of ignition.

## Cables

- Minimum bend radius of 100 mm (3.94 in).



Drill hole,  
19/64 in (7.5 mm)  
diameter in  
2 positions

Drill hole,  
15/16 in (23.6 mm)  
diameter in  
2 positions

### Command Centre Keyboard Template

**Remove material  
from shaded area only**

11.1 in (281.6 mm)

3.25 in (82.6 mm)

Instrument edge

Sun cover edge

