

Section 4: Using Keypads

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Chapter 1: An Introduction to Keypads

1.1 Keypad types

The following ST290 keypad types are available:

- Remote Keypad. The Remote Keypad enables you to control standard ST290 digital instruments and MaxiView instruments. The operation of the Remote Keypad is described in *Section 4, Chapter 2*.
- Man Overboard (MOB) Keypad. Enables you to swiftly initiate a MOB routine when necessary. The operation of the MOB Keypad is described in *Section 4, Chapter 3*.
- Pilot Keypad. Provides comprehensive control of Raymarine autopilots. The operation and calibration of the Pilot Keypad are described in *Section 8, Autopilots*.

Chapter 2: Remote Keypad

2.1 Introduction

The ST290 Remote Keypad enables you to operate your ST290 digital and MaxiView instruments, without actually being present at the instruments.



Figure 2-1: Remote Keypad

Remote control organization

For the purposes of remote control, instruments are organized into groups. You can have up to eight groups of standard ST290 instruments and eight groups of MaxiView instruments, within your ST290 system:

- Each group can comprise up to eight instruments.
- Each group must have at least one Remote Keypad associated with it.
- Each keypad can control one standard instrument group and one group of MaxiView instruments.
- Within each group, instruments are identified by number, from 1 to 8.
- Each group is identified alphabetically:
 - Standard ST290 instrument groups are assigned letters A to H.
 - MaxiView instruments are assigned group letters J to Q.
- Each instrument in a group has a unique alphanumeric identity (e.g. A1, where A defines the group and 1 the instrument sequence number within the group). Ungrouped instruments have a dash (-) in place of a group letter.

The method of setting up the instrument groupings is described in *Section 7, System Setup*.

2.2 Remote operation

General principles

Each keypad can control all the instruments in the associated groups of instruments. Within each group, you select the instrument you want by means of a ↻ button:

- An **INSTRUMENT** ↻ button, enables you to select the required standard ST290 instrument.
- A **MAXIVIEW** ↻ button, enables you to select the required Maxi-View instrument.

Each time one of these buttons is pressed, a different instrument in the associated group is selected to be controlled.

For example, in remote control group B, successive presses of the **INSTRUMENT** ↻ button on the associated keypad would select instruments B1, B2, B3 etc in turn. As each instrument is selected, it either displays a remote indicator or presents inverse video, to show you can control it from the Remote Keypad.

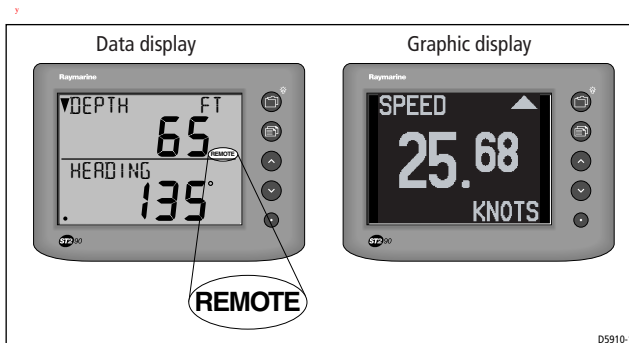


Figure 2-2: Typical remote control indicators

Button function

The the functions assigned to each keypad button are shown in *Figure 2-3*.

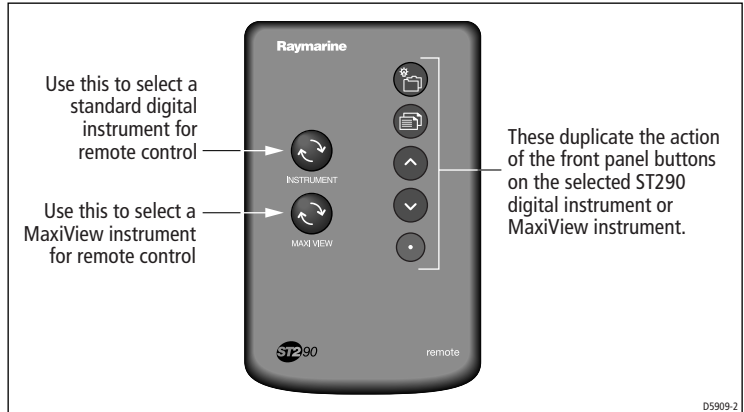


Figure 2-3: Remote controls

Procedure

To remotely operate an instrument:

1. Observing the instruments in the relevant instrument group, press the appropriate ↻ button (**INSTRUMENT** or **MAXI VIEW**) the necessary number of times, to select the instrument you want to control remotely.

Note: *Once selected, an instrument returns to local control if there is no Remote Keypad activity for 5 seconds.*

2. Use the appropriate Remote Keypad buttons to operate the selected instrument (see *Figure 2-3*), in the same way that you would use the respective buttons at the instrument.

Chapter 3: MOB Keypad

3.1 Introduction

The Man-Overboard (MOB) Keypad is used if a man overboard situation occurs, to initiate an alarm and request MOB position information from the appropriate system components.

Any number of MOB Keypads can be installed, and any one can be used to initiate a MOB alarm. When a MOB alarm is initiated and an appropriate Raymarine product is connected to the ST290 system, selected instruments will display information relating to the location of the man-over-board incident.





Figure 3-1: MOB Keypad general view

3.2 Operation

CAUTION:


The MOB keypad is intended only an aid to recovery. It must not be used as an alternative to traditional methods and skills.

If a man overboard situation occurs, press the  button immediately. When the button is pressed, the keypad beeps and a MOB condition is initiated. When this occurs:

- An internal buzzer sounds every 30 seconds.
- The elapsed time since the  button was pressed is sent to the system.
- If a Raymarine product that supports the MOB function is connected to ST290, the range and bearing to the MOB position are calculated and transmitted to the digital instruments.

Canceling a MOB condition

A MOB condition can be cancelled from any MOB Keypad or from a compatible instrument. Clearing a MOB alarm resets the system to normal.

To cancel a MOB condition, hold down the  button for 3 seconds.