

# OarRATER MANUAL

The OarRATER has been specially developed for the sport of rowing. Its primary function is to give the stroke rate when the stop/start button is pressed in time with the strokes of an observed crew. It also has stopwatch facilities as well as alarm, splits, date and time. It can also be used to determine heart rates.

There is a protective clear plastic film over the viewing area that can be removed.



## MODES

There are five modes. In sequence these are - RATE PER MINUTE, STOPWATCH, TIME, DATE, and ALARM. By pressing button B you can rotate through them. The modes appear in the order below

### RATE PER MINUTE MODE

Press button B until this mode appears (see picture). In this mode button C should be pressed in time with the strokes of the crew being observed. The rate will be shown after three presses and will be continually updated as more input is given by pressing button C. The accuracy of the rate shown on the display is completely dependant on human input and subject to error thus an averaging algorithm is used. The use of this algorithm requires three presses to initiate the display.

### STOPWATCH AND SPLIT MODE

Press B when in the Rate Per Minute mode to get Stopwatch mode. The stopwatch is started and stopped using button C. To clear the display press button A. When the stopwatch is running on the display if A is pressed the display will change to show the

time from the start to that input – a split time, but the stopwatch continues in the background. Pressing A again resumes the display of the elapsed time from the start. Split times can be done as often as required but these figures are not recorded and the time shown is always from the start time.

The stopwatch function will continue even when going to another mode. Thus while the stopwatch is running you can use the Rate Per Minute mode to determine a rate without losing the total elapsed time. But if the mode is changed during a split time it will cancel that split time reading.

## TIME MODE

Press B again for the Time Mode. When in this mode, the hours, minutes and seconds can be changed by holding down button A until the numeral in the display screen flashes, then use button C to make the alteration. When not in the change mode pressing button C will change from 12-hour to 24-hour clock. (This also changes the alarm setting). If the mode is in the 12 hour setting and in the morning hours, a small “A” will show on the left hand side of the screen. For afternoon hours a “P” is displayed. These will not appear in 24 hour settings. Ensure that the time is set correctly to “am” or “pm”, which ever is correct

## DATE MODE

Pressing B will move to Date Mode and use the same method described above to alter the date.

## ALARM

Pressing B when in Date Mode will bring up the Alarm Mode and the time set for the alarm will be shown. If there is no icon in the top right of the display the alarm is off. To switch the alarm on, and off, press button C. To change the time set for the alarm press button A and hold until the hour figure flashes. Change this figure using button C if required. Repeat for minutes and seconds. (To change between 12-hour and 24-hour clocks go to Time Mode).

The Alarm Mode will revert to the Time Mode if there is no input for 30 seconds.

## CHANGING THE BATTERY

Undo the six screws at the back and carefully separate the cover. There are two wires that connect the two halves of the unit so ensure great care is taken not to break them. The old battery can be removed and then replaced with an identical LR-44 1.5V lithium battery.

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