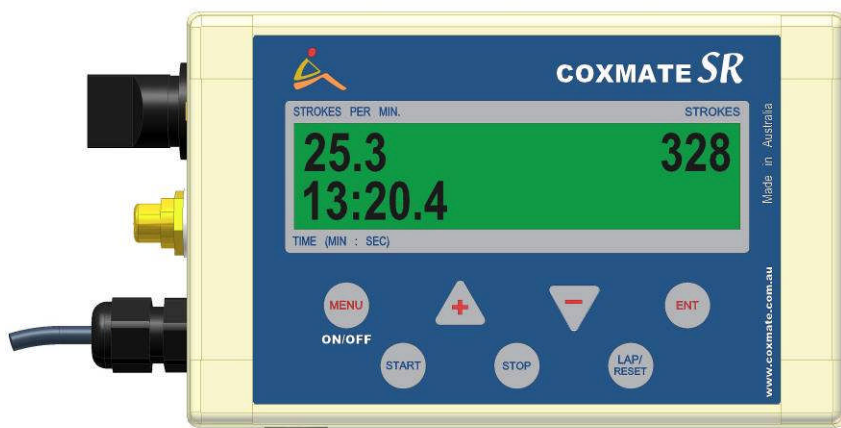


COXMATE

ADVANCED ELECTRONICS FOR ROWING

SR



HIGH CAPACITY NiMH BATTERIES

LARGE BACKLIT DISPLAY

RECORD/RECALL of RATING and INTERVAL TIMES

METRONOME

ROBUST WIRING LOOM

The **Coxmate** range of products brings the benefits of current electronics technology to rowing. The **Coxmate SR** is the mid range of the **Coxmate** family. Its main functions are a rechargeable audio amplifier, stop watch/timer, stroke rate display and stroke count.

The **SR** has a long list of other features, including:- A backlit display for those dark winter mornings, a metronome function providing an audible pulse at a preselected stroke rate, the recording and recall of stroke rate and interval times, increased battery capacity, and a sophisticated battery management system to provide indication of available battery charge and maximise battery life. Connector is fitted for external radio receiver to be plugged in, enabling coach to talk direct to crew.

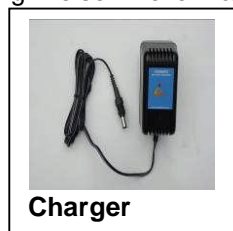
The **Coxmate** range is offered with speakers, wiring loom, stroke/seat sensors, microphone and charger. The speakers, stroke/seat sensor and wiring loom are compatible with the Nielsen Kellerman Cox-Box™ and Cox-Vox™ units. An **SR** unit can be plugged directly into an existing Nielsen Kellerman wiring loom.

The following Coxmate kits and components are available:

- ✚ **SR-Kit:** SR control unit with charger, microphone, carry case, mounting plate, silicone grease and manual.
- ✚ **CH4-SR-kit:** Wiring loom for four with 2 speakers and stroke/seat sensor.
- ✚ **CH8-SR-kit:** Wiring loom for eight with 4 speakers, stroke/seat sensor and section connectors. The section connector is at seats 4/5 – to enable boat to be sectioned for transport. Other arrangements can be supplied.

The following Coxmate components are available:

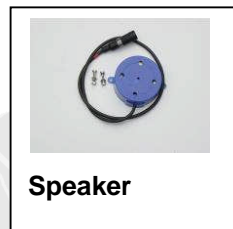
- ✚ **SR:** SR control unit with microphone
- ✚ **CH4:** Wiring loom for four. (2 speakers)
- ✚ **CH8:** Wiring loom for eight. (4 speakers)
- ✚ **SS:** Stroke/seat sensor comprising sealed reed switch and magnet with mounting fittings.
- ✚ **SP:** Waterproof speaker with mounting fittings.
- ✚ **BC-240:** Battery charger for 240VAC operation.
- ✚ **GREASE:** Special silicone grease for electrical connectors.



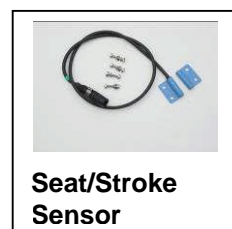
Charger



CH-SR-Kit



Speaker



Seat/Stroke Sensor



SR-Kit

The **Coxmate** designs are a result of a lengthy and intensive study into the needs of rowing, and how existing systems can be improved. Some of the **features** are listed below:

- ✚ Large capacity NiMH rechargeable battery storage.
- ✚ Sophisticated battery management with indication of charge level. Charger turns off when fully charged – avoids degrading batteries by overcharging.
- ✚ Increased audio power, reducing distortion, increasing efficiency and battery operating time.
- ✚ Automatic power down if speakers are not connected – avoids accidental flattening of batteries.
- ✚ Automatic retention of volume setting when turned off/on.
- ✚ Large versatile 2 x 16 digit alpha numeric display with backlight. Backlight can be turned on/off.
- ✚ Fully featured stop watch/timer.
- ✚ Short circuit protection of speaker output.
- ✚ Customer replacement of rechargeable batteries.
- ✚ A permanent connection of microphone to control box – removing problems associated with unreliable connection.
- ✚ **Coxmate** wiring loom accommodates up to 4 speakers – providing even sound volume through boat, and enabling cox to communicate with his crew but not the competing crew alongside.
- ✚ Improved wiring loom design:
 - ✚ All connectors are fitted with strain relief to protect against damage during connection/disconnection.
 - ✚ All cables are double insulated to provide additional mechanical protection.
 - ✚ All copper wires are tinned to reduce corrosion.
 - ✚ All connectors are fitted with clear visual markers to assist in aligning of two halves during connection.
 - ✚ Main loom connector and section connectors have retentive caps, to protect connector when control unit is disconnected.
- ✚ The **Coxmate** units are supplied with a special mounting plate. This can be permanently mounted in boat or strapped to cox's arm or leg with Velcro™. The control unit is easily attached and detached from this plate.
- ✚ Mute button: Will suppress audio if held down.



SR unit installed in eight

Specification:

- ✚ **Stroke rate:** Range: 5.0 to 69.9 strokes/minute. 0.1 resolution
- ✚ **Batteries:** Charge time approx 8 hours. Run time approx 10 hours with backlight OFF and 5 hours with backlight ON,
- ✚ **Timer/Stopwatch:** 00:00.0 to 60:00.0 (mm:ss.s). Rolls over to 00:00.0 and continues timing if >59:99.9. Start is initiated by pushing **start** button twice or **start** button once plus pulse from stroke/seat sensor.
- ✚ **Record/Recall:** Rating; Up to 80 readings of stroke rate, averaged over 15 seconds for four readings and 30 seconds thereafter. Intervals; 20 interval times.
- ✚ **Stroke Count:** 0- 999. Rolls over to 0 and continues to count if > 999.
- ✚ **Metronome:** Audible pulse between 5 and 70 per minute.
- ✚ **Radio Connection:** RCA socket provided.
- ✚ **Sealing:** All components sealed to IP67.
- ✚ **Buoyancy:** SR floats
- ✚ **Dimensions of SR:** 145x90x45 mm
- ✚ **Weight of SR:** approx 450g
- ✚ **Speakers:** Up to a maximum of 4 speakers can be connected.
- ✚ **EMC:** **FCC:** Part 15 Class B. **CE:** EN50081.1:IEC/CISPR61000-6-3:1996 Class B (radiated emissions) and 61000.4.2 2002 electrostatic discharge immunity.

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