



Sporting Designs Ltd

Scoreboard specification

Overview:

All our scoreboards feature flip-digits which are visible in bright sunlight and which may be controlled remotely by a wireless remote control unit. They are suitable for a variety of sports such as hockey, rugby, polo, football and so on.

Overall size:

The overall size for units with 18 inch digits is approximately 444 cm wide by 300 cm high depending on the sport. Depth is approximately 15 cm excluding the stand. The size is suitable for the scoreboard to be seen clearly from 300 metres away. There are 2 areas for advertisements at the top and bottom (see photograph), each 444 cm by 70 cm. The top section hinges down when not in use, covering the top digits and keeping the top title / advertisement clean. A bottom section also hinges up to cover the bottom row of digits.

For some sports 9 inch flip digits are used and frame is proportionally smaller.



A typical layout

Digits:

The digits are white on black, 18 inch high, 7 segment, flip digits. Digits are arranged to display the time (counting down), 2 scores and, for polo, the chukka (period) number. 9 inch high digits are also available.

Power:

Scoreboards may be powered by one of two methods:

1. Battery. Two 12 volt car batteries (to make a 24 volt supply) are sufficient to operate the scoreboard for 4 or 5 days at least. The scoreboard may be supplied with a suitable battery charger.
2. Mains supply. The scoreboard may optionally be supplied by 240 volts or 110 volts ac mains supply. An internal power supply converts the power to 24 volts required internally. A poor quality mains supply should **not** affect operation. If the power fails during operation, all the digits stay at the last values.



18 inch high digits for a polo scoreboard

Remote control unit:

1. Range. The remote control unit has a range of approximately 400 metres when in line-of-sight of the scoreboard.
2. Power. The remote control unit is powered from 2 AAA batteries which should last at least 14 days of normal use.
3. Size. The remote control unit is suitable to wear on the arm and comes complete with elastic strap. It weighs just 150 grams.
4. Operation. The remote control unit has 6 buttons which are used for all operations including:-
 1. Starting the clock
 2. Stopping the clock
 3. Incrementing the score on the left
 4. Incrementing the score on the right
 5. Resetting for the next period
 6. Resetting for the next match
 7. Decrementing the score on the left (after an error)

8. Decrementing the score on the right (after an error)
 9. Sounding the horn between matches
 10. Changing the configuration
5. Buttons. The buttons are raised giving a slight click and positive movement when pressed.
 6. Wireless licence. The wireless transmitter is licence except.



Remote control unit

Operation of clock:

The clock starts at 35:00 (hockey), 40:00 (rugby), 7:00 (polo). The clock may be started and stopped by the umpire or timekeeper at any time using individual buttons. It counts down in seconds. When it reaches zero a horn is sounded and the time stays at zero until reset by the umpire. For polo, when the time reaches zero, there is a bell sound for 4 seconds and the time is then reset to 30 seconds (shown as -:30) and continues to count down until it again reaches zero when the horn sounds for 4 seconds. The clock then stays at zero until reset by the umpire.

Scores:

Each score may be incremented by the umpire at will. For polo, where one team may start with a $\frac{1}{2}$ goal handicap advantage, a separate painted " $\frac{1}{2}$ " may be hung next to the left hand score. If the timekeeper makes a mistake, holding down the button for 5 seconds reduces the score by 1.

Testing:

When the scoreboard is powered up, it goes through a self-test sequence. This shows each segment as on (white) and then off (black). After a 5 second delay, the scoreboard is ready for operation.

Spare remote control unit:

It is possible to purchase spare remote control units and all remote control units may all be active at the same time. Any new remote control unit transmitter has to be registered with the scoreboard receiver and there are simple instructions on how to do this.

Bespoke operation:

Sporting Designs Ltd can re-program operation of the scoreboard to your specific requirements.

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