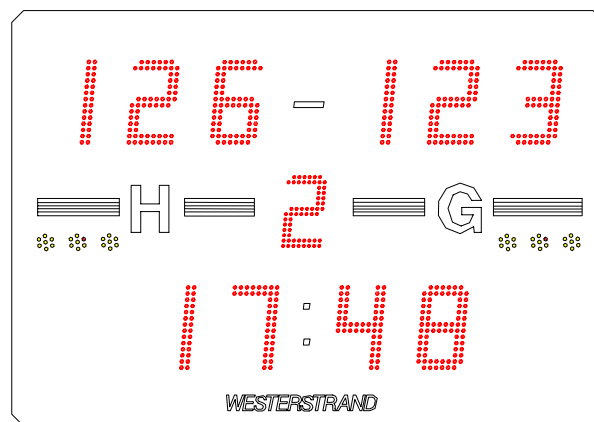


# Instructions

## MOBILE SCOREBOARD

### LED 140 / LED 140 RADIO



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## General

The Westerstrand Mobile LED Scoreboard is pre-programmed for a selection of sports and controlled by a Remote Control Unit. Operation during a match/event is guided by sportwise keyboard panels to be placed on the Remote Control Unit.

Two versions for communication between the remote control unit and the board are available; by wire or by radio transmission.

The scoreboard is designed for indoor application.

## Scope of delivery

The delivery of the system includes:

### Wire communication version

- Scoreboard
- Remote Control Unit for wire (3,5m) communication.
- Keyboard panels for operation (sportwise).
- 1,5m cable for connection to 230V
- Connection box (for fixed installation otherwise not included).

### Radio controlled version.

- Scoreboard.
- Remote Control Unit for radio transmitting.
- Battery Eliminator 12V DC.
- Keyboard panels for operation (sportwise).
- 1,5m cable for connection to 230V.
- Protection case for the Remote Control Unit.

### Options

- Start/Stop Handle
- Battery Package 12V DC for the Remote Control Unit

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## Installation

### Scoreboard

The scoreboard is for stand-alone or should be fixed to wall or any other fixed arrangement. For wall mounting, use the 4 holes at the backside of the board.

At systems with connection box, connect it to the scoreboard according drawing, appendix A.

Before use, connect to main power (230V AC, 50Hz) via a plugable terminal on the scoreboard.

### Remote Control Unit

#### For wire connection to board

Connect the Remote Control Unit to the plug-in terminal at the side of the board, or to connection box

#### For radio transmission to board

Connect mains (230V AC, 50Hz) to the Remote Control Unit via the Battery Eliminator. If operated from an optional battery package, connection to mains is not required. The included Battery Eliminator is used to charge the optional battery package.

Plug in the Start/Stop Handle, if included, into a free port on the rear side of the Remote Control.

## Keyboard Panels

The Remote Control Unit is pre-programmed with rules for various sport games. Each program is linked to a specific keyboard panel with self-explaining symbols for easy handling. In the display of the Remote Control Unit is shown the same information as sent to the scoreboard.

The following programs are available

<b>Sport</b>	<b>Art. no.</b>	<b>Document no.</b>
Handball	20957-04	2310
Basketball	20957-02	2311
Volleyball	20957-09	2312
Tennis	20957-07	2313
Indoor Football	20957-05	2316
Water Polo	20957-06	2317
Wrestling	20957-11	2329
Weight Lifting	20957-11	2331
Boxing	20957-11	2330
Table Tennis	20957-10	2319
Badminton	20957-08	2318
Floor ball	20957-03	2315



## Start of the installation

Check the installation in the following steps:

Make specific connections and switch on the main power to scoreboard.

Attach a keyboard panel to the remote control unite and select a sport.

Check that the display board is lit up with the correct information for the selected sport.

## What happens if the power is down?

If the power is down the LED's are turned black. In the Remote Control the counting of time is stopped and actual results are saved. The Remote Control Unit will display the information for approx. 2 minutes after power failure.

When the power is up again, the display of the Remote Control Unit show "Restore data N/Y". Press YES and the information is automatically displayed on the scoreboard, and the match can continue.

## Disturbances of radio transmission

All radio transmission in the bandwidth used by this installation can be disturbed for various reasons. Mobile phones, television transmissions, etc. can cause disturbances under certain conditions. If disturbances cause incorrect information on the scoreboard, press the G symbol on the Remote Control Unit, and the information on the scoreboard will be updated.

## Technical specification

Data	LED 140
Weight (kg)	15
Dimension. W x H x D mm	1000x700x50
Connection voltage (V)	230 VAC 50Hz +5%-10%
Connection power (VA)	50 (fuse 3.5A in outlet)
Size of digits (mm)	140
Colour of digits	red
Size of dots (mm)	38x38
Readability (m)	50
Transmission distance (m) Remote Control Unit to the Scoreboard	100 Frequency 434 Mhz
Max. cable length (m) Remote Control Unit to the Scoreboard	50
Environment temperature	0°C - +40°C

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## Appendix

### A. Connection of connection box

