

## Section 11 66 43 – Interior Scoreboards

### 8218 LED Basketball Scoreboard

#### Part 1 - General

- 1.01 Summary
  - 1.01.1 Section includes a single-sided, indoor, electronic, multisport scoreboard
- 1.02 References
  - 1.02.1 UL 48 – Standard for Safety for Electric Signs, 15<sup>th</sup> Edition
  - 1.02.2 National Electrical Code
  - 1.02.3 Federal Communication Commission (FCC) Rules, Part 15
- 1.03 Submittals
  - 1.03.1 Product Data: Manufacturer's illustrations, diagrams, pictures, and documentation for scoreboard(s) and accessories
  - 1.03.2 Documentation: Wiring diagram, installation manual, and operation manuals
- 1.04 Delivery, Storage, and Handling
  - 1.04.1 Product to be delivered to customer specified location
  - 1.04.2 Product to be stored in a clean, dry, environment prior to installation
- 1.05 Site Conditions
  - 1.05.1 Ambient Conditions
    - A. Building space must be enclosed, weatherproofed, and any additional projects which may change the environmental conditions (e.g. temperature and humidity) must be completed before the installation of the scoreboard(s)
    - B. The mounting location of the scoreboard(s) needs to be confirmed with the owner prior to installation.
    - C. An AC power source will need to be located near the top left corner of the scoreboard's mounting location.
    - D. Ensure that all mounting hardware and the building structure is capable of supporting the weight of the scoreboard and accessories.
- 1.06 Warranty
  - 1.06.1 Manufacturer Warranty
    - A. Scoreboard is covered under a five (5) year general manufacturer defect part warranty
    - B. Radios (optional) are covered under a two (2) year manufacturer defect part warranty
    - C. Console AC adapter and internal battery pack are covered under a one (1) year manufacturer defect part warranty
    - D. Provide Technical Phone support Monday through Friday 8:00am to 5:00pm Central Standard Time. Limited phone support available until 9:00pm on weekdays, and from 8:00am to 12:00pm on Saturdays

## Part 2 - Products

### 2.01 Manufacturers

2.01.1 All American Scoreboards. 401 S. Main Street, Pardeeville, WI 53954

2.01.2 \_\_\_\_\_

2.01.3 \_\_\_\_\_

### 2.02 Equipment: 8218 Electronic Scoreboard

2.02.1 Description: All American Scoreboards 8218, single sided Basketball scoreboard. Multi-sport functionality for Basketball, Volleyball, Wrestling, and a Segment Timer.

#### 2.02.2 Scoreboard Design Criteria

##### A. Cabinet Construction

1. 5" extruded aluminum frame, .093" thick
2. Shatterproof polycarbonate face panel
3. Nine (9) standard colors, with custom color matching available
4. 6'10" high x 12' wide x 5" deep (2.08m x 3.66m x .13m)
5. Net Weight of 251lbs (113.9kg)

##### B. LED Panels

1. Scoreboard displays Game Time, Home Score, Guest Score, Period, Time Outs Left (T.O.L.), Fouls, Bonus, Double Bonus, and Possession
2. Clock Digits: 18" high red, displaying 0:00-99:59, with user configurable last minute tenths.
3. Score Digits: 16" high amber, displaying 0-199
4. Period Digit: 14" high red, displaying 1-4, 0 (Overtime)
5. T.O.L Digits: 14" high amber, displaying 0-9
6. Fouls Digits: 14" high red, displaying 1-19
7. Player Number Digits: 14" high amber, displaying 00-99
8. Player Foul Digit: 14" high amber, displaying 0-9
9. Possession Indicators: 2" red bull's-eye indicator
10. Bonus/Double Bonus Indicators: 2" amber bull's-eye indicator

##### C. Captions:

1. All Captions are White Vinyl
2. Home and Guest Captions: 8.5" high
3. Bonus, Poss, and Period Captions: 3.5" high
4. T.O.L. Caption: 3" high
5. Foul, Fouls, Player, Score, and Match Captions: 4" high

##### D. Standard Equipment

1. Shatterproof polycarbonate face panel protects all LEDs, requiring no additional protective netting or screen
2. Twisted pair hardwire control
3. Time of Day Clock when not connected to a console
4. 100dB External horn

##### E. Optional Equipment

1. 2.4GHz Wireless Radio Control (Hardwire backup is available)
2. Ad-panels
3. Green or White colored LEDs also available
4. 120dB external horn
5. MP-8201SP or MP-8601 series Stat Panels
6. Everbrite Message Center

### 2.02.3 Console Design Criteria

- A. 8000 Series Multi-Sport Console
- B. Console Construction: Extruded aluminum with raised molded sides
- C. Console Dimensions: 13.25" (33.66cm) wide x 5" (12.7cm) high x 9" (22.86cm) deep
- D. Net weight: 6lbs (2.72kg)
- E. Microprocessor control with membrane keyboard
- F. Standard Console Features:
  - 1. Internal battery pack
  - 2. Capability to control any single or multiple scoreboard(s), timer(s), Electronic Message Center(s) and/or stat panels
  - 3. Easy to read large 2x20 character LCD screen
  - 4. Multi-sport functionality with slip sheets for membrane keypad layout
  - 5. AC power adapter, 12V, 2.0A for AC power operation and internal battery charging
  - 6. Basic setup instructions on the underside of the console
  - 7. Advanced console configuration options are available via a USB connected PC
  - 8. USB updatable firmware, when attached to an internet connected PC
  - 9. Full sport configuration setup through the console, including period time, stat panel operation, number of periods, time out length, time outs allowed, two (2) shot clock times, max team fouls, automatic horn, last minute tenths, automatic bonus, bonus level, and double bonus level.
  - 10. Visual indicators for radio operation, running clock, battery, and horn
  - 11. Hand-held timer pendant switch for clock stop/start
  - 12. Dimming control for 8 levels of Scoreboard LED brightness
- G. Optional Console Features
  - 1. Hand-held remote functionality with console add-on
  - 2. Hard-Cover carrying case
  - 3. 2.4GHz radio for wireless control

## Part 3 - Execution

### 3.01 Examination

- 3.01.1 Verify that the mounting structure is ready to receive the scoreboard. The wall and mounting anchors must be capable of supporting the scoreboard's weight.

### 3.02 Installation – Scoreboard

- 3.02.1 All power wires and any control wires will be routed in conduit. Power to the scoreboard(s)/display(s) as well as any cable race-ways shall be installed as shown on the electrical plans by the electrical contractor or architect's specifications
- 3.02.2 Mount and install the scoreboard(s) and ad-panel displays to the wall or mounting structure in the manner described in the supplied manufacture's instructions. Verify that the scoreboard is mounted plumb, level, and all fasteners are secure.

3.03 Installation – Hardwire Control

3.03.1 Install any ports, jacks, and/or electrical boxes in the specified locations per the project plans.

3.03.2 Confirm all control wiring is performed in accordance with manufacturer's specifications.

3.03.3 Test the operation of the scoreboard and control console. Confirm the console is able to control all scoreboard functions, digits, and indicators.

3.03.4 Leave the console, and any accessories with the scoreboard owner, or owner's designated representative.

End of Section 11 66 43