

Section 11 66 43 – Interior Scoreboards

8298 LED Basketball Shot Clock

Part 1 - General

1.01 Summary

1.01.1 Section includes a single-sided, indoor, electronic, Basketball Shot Clock

1.02 References

1.02.1 UL 48 – Standard for Safety for Electric Signs, 15th 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 shot clock(s)
- B. The mounting location of the shot clock(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 shot clock's mounting location.
- D. Ensure that all mounting hardware and the building structure/backboard is capable of supporting the weight of the shot clock(s) and accessories.

1.06 Warranty

1.06.1 Manufacturer Warranty

- A. Shot Clocks are 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: 8298 Electronic Shot Clock

2.02.1 Description: All American Scoreboards 8298, single sided Basketball Shot Clock. Multi-sport functionality for basketball and a segment timer.

2.02.2 Scoreboard Design Criteria

A. Cabinet Construction

1. 5" extruded aluminum face, .093" thick
2. Shatterproof polycarbonate face panel
3. Nine (9) standard colors, with custom color matching available
4. 3' high x 3'5" wide x 5" deep (.91m x 1.04m x .13m)
5. Net Weight of 40lbs (18.14kg)

B. LED Panels

1. Shot Clock Displays Game Time and Shot Clock Time
2. All Digits are 7-segment
3. Clock Digits: 10" Amber, displaying 00:00-99:59, with user configurable last minute tenths
4. Shot Timer Digits: 14" high red, displaying 0-99

C. Standard Equipment

1. Built-in shatterproof polycarbonate face panel protecting 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. 80dB Internal tone horn

D. Optional Equipment

1. 2.4GHz Wireless Radio Control (Hardwire backup is available)
2. Green and White colored LEDs also available
3. Internal 93dB vibrating horn
4. Light Strips (8298L or 8298SCS)

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 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 shot clocks. The wall and mounting anchors must be capable of supporting the shot clock's weight.

3.02 Installation – Scoreboard

- 3.02.1 All power wires and any control wires will be routed in conduit. Power to the shot clock(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 shot clock(s) and ad-panel displays to the wall or mounting structure in the manner described in the supplied manufacture's instructions. Verify that the shot clock 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 shot clocks owner, or owner's designated representative.

End of Section 11 66 43