Section 11 66 43 – Interior Scoreboards

8600ASP LED Volleyball/Basketball Stat Panels

Part 1 - General

1.01   Summary
        1.01.1 Section includes two (2) single-sided, indoor, electronic, multi-sport stat panels

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 stat panels 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 stat panels
                B.   The mounting location of the stat panels 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
                      stat panels' mounting location.
                D.   Ensure that all mounting hardware and the building structure is capable of
                      supporting the weight of the stat panels

1.06   Warranty
        1.06.1 Manufacturer Warranty
                A.   Stat panels 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: 8600ASP Electronic Stat Panels
        2.02.1 Description: All American Scoreboards 8600ASP, single sided Volleyball stat
               panels. Multi-sport functionality for Volleyball and Basketball. Designed for use
               with the 8214 basketball and the 8614 volleyball scoreboards.
        2.02.2 Stat Panel 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.   5' high x 3' wide x 5" deep (1.52m x .91m x .13m)
                     5.   Net Weight of 65lbs (29.5kg)
               B.   LED Panels
                     1.   Stat Panels Display Player, Aces, and Digs
                     2.   All digits are 7-segment
                     3.   Each Stat Panels display up to six (6) players
                     4.   Player Digits: 5" high amber, displaying 00-99
                     5.   Aces Digits: 5" high red, displaying 00-99
                     6.   Digs Digits: 5" high amber, displaying 00-99
               C.   Captions:
                     1.   All Captions are white vinyl
                     2.   All Captions are 2" high
               D.   Standard Equipment
                     1.   Built-in shatterproof clear polycarbonate protective covers over all
                           LEDs, requiring no additional protective screens or netting
                     2.   Twisted pair hardwire control
                     3.   Basketball Placards for stat panel conversion
               E.   Optional Equipment
                     1.   2.4GHz Wireless Radio Control (Hardwire backup is available)
                     2.   Ad-panels
                     3.   Green and White colored LEDs are also available
        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.
    (i)   Volleyball: Period time, ability to use stat panels, number of matches, time out length, time outs allowed, automatic horn, and last minute tenths.
    (ii) Basketball: 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 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 stat panels. The wall and mounting anchors must be capable of supporting the stat panels' weight.

3.02   Installation – Stat Panel
3.02.1 All power wires and any control wires will be routed in conduit. Power to the stat panels, 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 stat panels to the wall or mounting structure in the manner described in the supplied manufacture's instructions. Verify that the stat panels are mounted plumb, level, and all fasteners are secure.
     A.   The stat panels are factory programmed for Guest or Home stats

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 stat panels and control console. Confirm the console is able to control all stat panel functions, digits, and indicators. Confirm the correct stats are displayed on the correct panel.
3.03.4 Leave the console, and any accessories with the stat panel's owner, or owner's designated representative.

End of Section 11 66 43