

## SECTION 11480

### 9400 LED MULTI-PURPOSE SCOREBOARD

#### PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Single-sided LED Portable Multi-purpose Scoreboard
- 1.2 REFERENCES
  - A. Standards for Electric Signs, UL-48, 13<sup>th</sup> Edition
  - B. Standards for Control Centers for Changing Message Type Signs, UL-1433 1<sup>st</sup> Edition
  - C. Standards for CAN/CSA C22.2
  - D. Federal Communications Commission Regulation Part 15
  - E. National Electric Code
- 1.3 SUBMITTALS
  - A. Product data: Submit manufacture's product illustrations, data and literature that full describe the scoreboards and accessories proposed for installation.
  - B. Shop Drawings: Submit mechanical and electrical drawings
  - C. Maintenance data: Submit manufacturer's installation, operation, and maintenance manuals.
- 1.4 DELIVERY, STORAGE, AND HANDLING
  - A. Product delivered on site.
  - B. Scoreboard and equipment to be housed in a clean dry environment.
- 1.5 PROJECT CONDITIONS
  - A. Environmental Limitations: Do not install scoring equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for project when occupied for its intended use.
  - B. Field Measurements: Coordinate scoreboard location and height with the customer. Verify dimensions by field measurements.
  - C. Supply weight and mounting method for owner to verify that building structure is capable of supporting the scoreboard's weight in addition to the auxiliary equipment.
- 1.6 QUALITY ASSURANCE
  - A. For indoor/ Outdoor use.
  - B. Source Limitations: Obtain each type of scoring equipment and electronic displays though one source.
  - C. Manufactured to UL Standards 48 and 1433.
  - D. NEC compliant
  - E. FCC compliant
  - F. Manufactured to CAN/CSA 22.2

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1.7 WARRANTY/SERVICE PLAN

- A. Provide 5 years of coverage.
- B. Provide an exchange program to supply replacement parts for components that fail during the coverage period. To minimize downtime, the exchange parts shall be shipped on the same day the order is received or the following day. The manufacturer will include an air bill for the return of the defective components.
- C. Provide a help desk staffed by experienced technicians and coordinators who are thoroughly familiar the scoreboard and available for technical support. The staff must be available at no extra cost to the customer.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Eversan, Inc., 34 Main Street, Whitesboro, NY 13492
- B. \_\_\_\_\_
- C. \_\_\_\_\_

2.02 PRODUCT

- A. Eversan, Inc. Model 9400 single sided LED multi-purpose scoreboard can score all sports using time and score features. It scores HOME and GUEST to 99, PERIOD to 9, displays period time to 99:59 and during the last minute of the period, it displays time to 1/10<sup>th</sup> of a second.

2.03 SCOREBOARD

- A. General Information
  - 1. Dimensions: 4'-0" (1219mm) high, 6'-6" (1921mm) wide, 0-3" (76mm) deep
  - 2. Weight: 90 lb (41 kg)
  - 3. Power requirement: 90 W
  - 4. Color: Specified by Customer
- B. Construction
  - 1. All aluminum construction
  - 2. Scoreboard perimeter, and back: .063" thick
  - 3. Scoreboard faceplate: .080" thick
  - 4. Digit Faceplates: .063" thick
  - 5. Cabinet withstands high-velocity impact from indoor sports balls without need for protective screens.
- C. Digits
  - 1. AS AllnGaP LED digits
  - 2. Seven bar segments per digit
  - 3. Outdoor Digit in Motion technology: 5mm oval LED's protrude though metal front for a large 140 degree viewing angle. Digit in Motion <sup>TM</sup>, *italic number*, technology uses an angled digit pattern to create a more natural looking display.
  - 4. Clock, score, and period digits: 11" (280mm) high
  - 5. Score, time and period digits: red or amber LEDs

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- D. Captions
  1. HOME and GUEST captions: 5" (127mm) high
  2. All other captions 3" (76mm) high
  3. Striping  $\frac{3}{4}$ " (19mm) wide
  4. Captions in white vinyl applied directly to the scoreboard face. Other caption colors available
  
- E. Logo/Sponsor Panels
  1. There is a space 7" (178mm) high, 32" (813mm) wide for Logo, school and/or sponsor name on the top of the scoreboard
  
- F. Horn
  1. Horn: mounts behind scoreboard face
  2. Sounds automatically when period clock counts down to zero
  3. Sounds manually as directed by the operator
  
- G. Power Cords
  1. Cord is 6' (1823mm) long
  2. Cord plugs into standard 120VAC outlet
  
- H. Optional Equipment
  1. Vinyl team logo/sponsor graphics
  2. Vinyl team name caption in place of home caption
  3. Programmable Team Name Message Centers
  4. Programmable Message Centers
  5. Protective Cage
  6. Wheel Cart

#### 2.04 SCORING CONTROL CONSOLE

- A. Console is the 9400/9408 controller
- B. Capable of scoring multi-purpose events without changing keyboard inserts
- C. Capable of controlling all 9400 series scoreboards
- D. Console has a maximum power requirement of 5 watts
- E. Console includes:
  1. A rugged stainless steel enclosure to house electronics
  2. Weather resistant mechanical push button switches and keypad
  3. 20 character two line liquid crystal display to verify entries and recall information currently displayed
  4. All-weather waterproof laser function label, console labels will never fade, crack, or peel
  5. A 6' (1829mm) 9VDC 600mA power adapter to plug into a standard 120VAC outlet
- F. Optional Equipment
  1. Carrying case for control console
  2. 2.4 GHz spread spectrum radio for scoreboard control
  3. 12V Battery pack with charger

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#### PART 3 EXECUTION

##### 3.01 EXAMINATION

- A. Verify surfaces that the scoreboard is to be mounted to are ready to receive the work. Verify that the conduit and junction boxes specified are as specified and indicated in the plans and shop drawings. Verify concrete has cured adequately according to specifications.

##### 3.02 INSTALLATION

- A. Power conduit, cabling and outlet boxes to be provided and installed by the electrical contractor. Signal raceways conduit and boxes to be provided by the electrical contractor. Electrical contractor is responsible for pulling signal wires between each scoreboard and control console location. Scoreboard vendor to terminate signal wire of control console and scoreboard.
- B. Mount scoreboards and interior displays to wall in location detailed and in accordance with manufacturer's instructions. Unit to be plumb and level.

##### 3.03 INSTALLATION-CONTROL CONSOLE

- A. Provide boxes, cover plates and connectors as required to meet control specification requirements. Control cables from scoreboard to control console junction box shall be concealed.
- B. Test the operation of the scoreboard, control console and all cables and connections. Leave control console unit in carrying case and other loose items with owner's designated representative.
- C. Conduct operator training on the scoreboard/ controller operation.

END OF SECTION

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