

SECTION 11480

9332 Series LED Shot Clock

PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Single-sided LED Shot Clock/Delay of Game Timer.
  
- 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 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
  
- 1.6 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. \_\_\_\_\_

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#### 2.02 PRODUCT

- A. Eversan, Inc. Model 9332 series single sided LED shot clock/ delay of game timer can display 2-digit pre-set time values as it counts down from 99-0.

#### 2.03 SCOREBOARD

- A. General Information
  1. Dimensions: 3'-0" (914mm) high, 4'-0" (1219mm) wide, 0-6" (152mm) deep for 30" digit
  2. Weight: 40 lbs. (16 kg) for 30" digit
  3. Power requirement: 120VAC @ 10W
  4. Color: Specified by Customer
  5. Programmable Loud Horn
  6. Mounting Brackets
- B. Construction
  1. All aluminum construction
  2. Scoreboard face, perimeter, and back: .080" thick
  3. Digit Faceplates: .063" thick
  4. Finish: Powder coat finish with high performance, architectural powder coat with UV protection to reduce color fading, no wet paint finish allowed
- C. Digits
  1. AlGaInP Light Emitting Diodes (LEDs)
  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™, *italic number*, technology uses an angled digit pattern to create a more natural looking display.
  4. Clock and score digits: 15" (381mm), 18" (457mm), 24" (610mm), 30" (762mm), 36"(914mm), and 40"(1016mm) high.
  5. Red or amber LED digits
  6. Individual digit panels are fastened with a maximum of four screws for structural soundness and ease of removal. Rivets or sheet metal screws are not an acceptable fastening method.
- D. Wireless Control Console
  1. 2.4 GHz spread spectrum 200mW radio for shot clock control in a dynamic network. Systems that require channel selection by the operator via the control console or through the use of dip switches on the scoreboard or control console are not acceptable.

#### 2.04 TIMING CONTROL CONSOLE

- A. Console is the 9332 series controller
- B. Capable of 2-digit display from pre-set time values as it counts down from 99-0.
- C. Console has a maximum power requirement of 5 watts
- D. Console includes:
  1. A rugged stainless steel enclosure to house electronics
  2. Weather resistant push button switches and keypad
  3. All-weather waterproof laser function label, console labels will never fade, crack, or peel
  4. A 6' (1829mm) power cord to plug into a standard 120VAC outlet

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- E. Optional Equipment
  - 1. Carrying case for control console
  - 2. 12V Battery pack with charger

#### PART 3 EXECUTIONS

##### 3.01 EXAMINATION

- A. Verify the mounting structure is ready to receive the scoreboard.

##### 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 timer and control console location. Contractor assigned the timer equipment to terminate signal wire of control console and shot clock.
- B. Mount shot clock in location detailed and in accordance with manufacturer's instructions. Verify 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 shot clock to control console junction box shall be concealed.
- B. Test the operation of the shot clock, control console and all cables and connections. Leave control console unit in carrying case and other loose items with owner's designated representative.
- C. Verify earth ground does not exceed 15 ohms.

END OF SECTION

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