# GENERAL

## SECTION INCLUDES

### A LED multisport football scoreboard

## SUBMITTALS

### Product data: Submit manufacturer’s product illustrations, data and literature that fully describe the scoreboards and accessories proposed for installation.

### Shop drawings: Submit mechanical and electrical product specification drawings.

### Maintenance data: Submit manufacturer’s installation, operation, and maintenance manual(s)

## DELIVERY, STORAGE, AND HANDLING

### Product delivered on site.

### Scoreboard and equipment to be housed in a clean, dry environment.

## Project CONDITIONS

### Environmental limitations: Do not install scoreboard equipment until mounting structure is secure and concrete has ample time to cure.

### Field measurements: Verify position and elevation of structure and its layout for scoreboard equipment. Verify dimensions by field measurements.

### Verify mounting structure is capable of supporting the scoreboard's weight and windload in addition to the auxiliary equipment.

## quality assurance

### Source Limitations: Obtain each type of scoring or related equipment through one source from a single manufacturer.

## WARRANTY

### Provide 5 years of parts coverage

### Provide toll-free service coordination

### Provide technical phone support during Colorado Time Systems business hours

# PRODUCTS

## manufacturer

### Colorado Time Systems, 1551 E 11th St, Loveland, Colorado 80537

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## Product

### This outdoor LED footballl scoreboard provides wireless scoring capabilities, and includes HOME, GUEST, TIME, QUARTER, and TOL displays. An adjustable 8-tone 125dB horn provides clear, audible end-of-period and shot clock notifications. Integrated time-of-day functionality allows the scoreboard to act as a clock when control console is off. Weather-proof digits and electronics are housed in a powdercoated aluminum chassis, which provides excellent corrosion resistance. Scoreboard is shipped as one piece for ease of handling and installation.

## scoreboard

### General information

#### Overall dimensions: 4’-2” High X 11’-0” Wide X 4-1/4” Deep (1.27m X 3.35m X 0.11m)

#### Weight: 140 lbs (63.5 kg)

#### Power: 115 VAC – 230 VAC, 50/60 Hz, 245 W

#### Enclosure color: 9 standard offerings with unlimited custom options

### Construction

#### 5052 aluminum chassis

#### Scoreboard face and perimeter: 0.063" thick

#### Scoreboard back: 0.063" thick

#### Digit faceplates: 0.093" thick polycarbonate

### Digits

#### Seven bar segments per digit with integrated dot functionality

#### HOME, GUEST, TIME, QUARTER: 18" (457 mm) high

#### TOL: 4” (102 mm) diameter

#### Color – All red, all amber, or mixed

### Horn

#### 125dB

#### 8 selectable, distinct tones

#### Separate audible tones for shot and period horns

#### Sounds automatically when period/shot clock counts down to zero

#### Sounds manually as directed by operator

### Captions

#### HOME, GUEST, QTR: 8” (203 mm)

#### TOL: 6” (152 mm)

### Power Cord

#### Cord is 10' (3.048m) long

#### Cord plugs into a standard grounded 120 V AC outlet

### Optional Equipment

#### Scoreboard striping – typically same color as captions

#### Striping around individual digit sections

#### Multiple caption options

#### Playclocks, timers, auxiliary displays

#### Advertising/identification panels

#### Decorative accents

#### Add-on video display units of various sizes

## SCORING CONSOLE

### Console is a WTTC-1 wireless controller

#### Capable of wireless or wired operation

#### Reliable wireless operation up to 1,000 ft.

#### 2.4GHz operation with 12 operating channels

#### Ability to control multiple scoreboards with a single controller

### Capable of scoring football and other team sports

### Capable of controlling other CTS multisport scoreboards

### Console has a maximum power requirement of 5 watts

### Console has a battery life of 15 hours continuous use

### Console includes:

#### A rugged aluminum enclosure to house electronics

#### A sealed membrane water-resistant keyboard

#### A internal rechargeable battery

#### A transflective display featuring 64X240 resolution

#### Slide-in inserts for multiple sport controllability

### Optional Equipment

#### Carrying case for console

# EXECUTION

## EXAMINATION

### Verify that mounting structure is ready to receive scoreboard. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings. Verify concrete has cured adequately according to specifications.

## INSTALLATION

### All power and control cables to scoreboards and displays will be routed in conduit. Power to the scoreboards/displays as well as raceways shown on electrical plans by the Electrical Contractor. Scoreboard control wiring including conduit will be the responsibility of the contractor assigned the scoreboard equipment.

### Install scoreboards and exterior displays to beams in location detailed and in accordance with manufacturer’s instructions. Verify unit is plumb and level.

## 3.03 installation—control center

### A. Provide boxes, cover plates and jacks as required to meet control specifications requirements.

### B. Test the operation of the scoreboard, controller and all control jacks, leave control unit in carrying case and other loose items with owner's designated representative.

##### END OF SECTION