



DATA  
SHEET

## Model EMD "Big Board" Scoreboards

SYSTEMS ASSOCIATES, INC. / 1932 Industrial Drive / Libertyville, Illinois 60048 / (847) 367-6650 / FAX: (847) 367-6960



Model EMD-460  
4" Digits

Model EMD-660  
6" Digits



### DESCRIPTION

The "Big Board" series of scoreboards is ideally suited to your most demanding requirements. The electromechanical digits are very easy to read and have a long service life. The "Big Board" series is available in 4", 6", and 9" digit heights. The standard scoreboard can be ordered with either 4, 5, or 6 digits. The interface is controlled by a high speed microprocessor which has the capability to interface to RS-232, RS-422, RS-485, 20 mA current loop, or an analog input.

The Big Board "Auto Learn" software has been designed so that no setup is necessary for all major weight indicators being produced today. Both the baud rate and data format are learned and the gross weight is displayed. Just connect the data and the EMD takes it from there.

Inputs for pulse counting and event timing increase the flexibility of these readout displays.

### FEATURES

- Large numbers displayed are easy to read from a distance.
- Three sizes to meet reading distance requirements.
- Built-in light provides excellent visibility for both day and night use.
- Yellow fluorescent digits on black background for easy reading in all light conditions.
- Metal enclosure with hood for protection from the environment. Designed for either indoor or outdoor use.
- Universal interface to most indicators through standard RS-232, RS-422, RS-485, 20 mA current loop, or analog input. Echoes input via RS-232.
- Electromechanical design for long life and reliability. The fluorescent digits provide extreme contrast, even in bright sunlight.
- Modular, no tools required design for easy replacement of the processor card or the display digits.

# Model EMD Series, "Big Board" Scoreboards

## Specifications and Features

### Display

- 4, 5, or 6 digits
- 4", 6", and 9" digit height
- Minus sign and "lb" annunciator standard
- "lb"/"kg" and "gross"/"net" segments are optional

### Enclosure

- Painted steel enclosure includes sun shield standard
- Stainless Steel housing optional
- Acrylic display face standard, tempered glass optional

### Input

- ASCII Interface with Learn Feature
- RS-232, RS-422, RS-485, 20 mA standard
- 20 mA current loop active or passive
- Pulse input with clearable counter
- Timer input with start and clear
- 0-10 volt and 4-20 mA analog input optional

### Connections

- 7 pin terminal strip for ASCII interfaces
- Radio Modem connection optional

### Baud Rate

- Auto selectable with Learn Feature
- Available rates 300, 600, 1200, 2400, 4800, 9600
- One start bit, one or two stop bits, Even/odd/no parity

### Power

- 117 VAC at 25 watts is standard
- Power cord kit optional
- Fluorescent bulb adds 15 watts or 40 watts on 9" models
- 12 VDC at 20 watts without illumination optional

### Environment

- Temperature -40 degrees F to +170 degrees F
- Humidity 5% to 95% relative humidity (non condensing)

## Dimensions and Weights

Model	Digit Size	Number of Digits	Height (in)	Width (in)	Depth (in)	Shipping Weight	Viewing Distance
EMD-440	4"	4	12 ½	26 ¼	11 ½	39 lb	160'
EMD-450	4"	5	12 ½	26 ¼	11 ½	40 lb	160'
EMD-460	4"	6	12 ½	26 ¼	11 ½	41 lb	160'
EMD-640	6"	4	14 ½	27	11	70 lb	240'
EMD-650	6"	5	14 ½	37	11	70 lb	240'
EMD-660	6"	6	14 ½	37	11	70 lb	240'
EMD-950	9"	5	18 ¾	53 ½	12 ½	200 lb	300'
EMD-960	9"	6	18 ¾	53 ½	12 ½	200 lb	300'

Specifications subject to change without notice  
 DS-39-0103  
 Printed in U.S.A.  
 © 2003 Systems Associates, Inc.