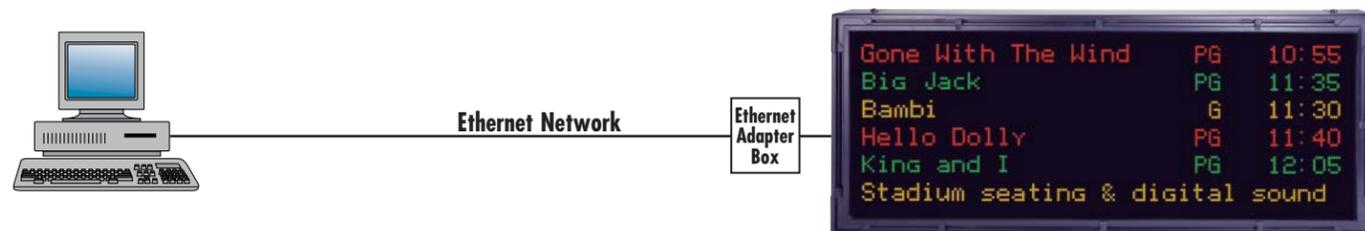|	
Pixel Size (Diameter):	0.2" (.05 cm)
Pixel (LED) Color:	Each dot can be red, green, or amber
Center-to-Center Pixel Spacing (Pitch):	0.3" (0.8 cm) for 2.1" character 0.2" (.05 cm) for 1.4" character
Character Size:	1.4" or 2.1"
Character Set:	International character set, block (sans serif), decorative (serif), upper/lower case, slim, wide, double wide
Memory Retention:	Typically one month
Message Capacity:	81 different messages can be stored and displayed
Message Operating Modes:	Hold, wipe (six directions), flash, five variable speed controls
Real-Time Clock:	Date and time, 12 or 24 hour format, maintains accurate time without power for up to 30 days typically

Serial Computer Interface:	RS232 and RS485 (multi-drop networking for up to 255 displays)
Power:	100-132 VAC, 60 Hz or 200-252 VAC, 50 Hz Autoranging input
Case Material:	Extruded aluminum
Limited Warranty:	One-year parts and labor, factory servicing
Agency Approvals:	Listed to ANSI/UL 1950-Third Edition (US) and CAN/CSA-22.2 No.950-M89 (Canada) Complies with EN 60950: 1992 (Europe) and AS/NZS 3260-1993 (Australia) – FCC Part 15 Class A – CE Marked
Operating Temperature:	32° to 140°F, 0° to 60°C
Humidity Range:	0% to 95% non-condensing
Mounting:	Hardware to accommodate ceiling and wall mounting methods (see FS installation instructions 9711-2101B)
Enclosure:	Fully front serviceable

RS232 Network

```
Line Job  Parts Rejects Comments
1    A365 2322  3       On time
2    A425 345   0       Shipping
3    A432 1045  10      Quality
4    B195 4576  5       On hold
5    C225 287   2       Review
```

RS232 — **RS485 Converter** — **RS485 Network**

```
DEPARTS TO   TIME   TRACK
Chicago      5:25   3      ONTIME
Detroit      5:36   1      DELAYED
Boston       5:47   7      ONTIME
Atlanta      5:55   5      ONTIME
Houston      6:02   2      ONTIME
```

Ethernet Network — **Ethernet Adapter Box**

```
Gone With The Wind    PG   10:55
Big Jack              PG   11:35
Bambi                 G    11:30
Hello Dolly           PG   11:40
King and I            PG   12:05
Stadium seating & digital sound
```

ALPHAVISION™ FS Series

Applications

Features

An Innovation in LED Displays

Looking for a fast, efficient way to display important messages?

The ALPHAVISION™ FS (Front Serviceable) Series electronic LED display will do just that and more. This innovative FS Series is an easy-to-use and easy-to-service communication tool. Once the signs are mounted, they can be accessed from the front for service, eliminating time consuming removal and remounting. Using these versatile, programmable signs, you can easily direct, educate, inform or motivate your audience.

The FS Series displays save time by allowing you to immediately and easily change information posted - including industrial production statistics and alarms, movie theatre showings and ads, as well as transportation schedules.

FEATURES
Displays are available in over 96 models, from 1.4" to 2.1" character sizes. The displays range in size from 4 lines of 32 characters (3.5 ft. wide by 1.5 feet high) to 12 lines of 48 characters (7.5 ft. wide y 3.5 ft. high). Character color options include red, super-bright red or tricolor (red, green, and amber).

Messages Easily Updated - Interface with a variety of software and hardware sources that update messages in real-time and are compatible with the ADAPTIVE® line of messaging software products.
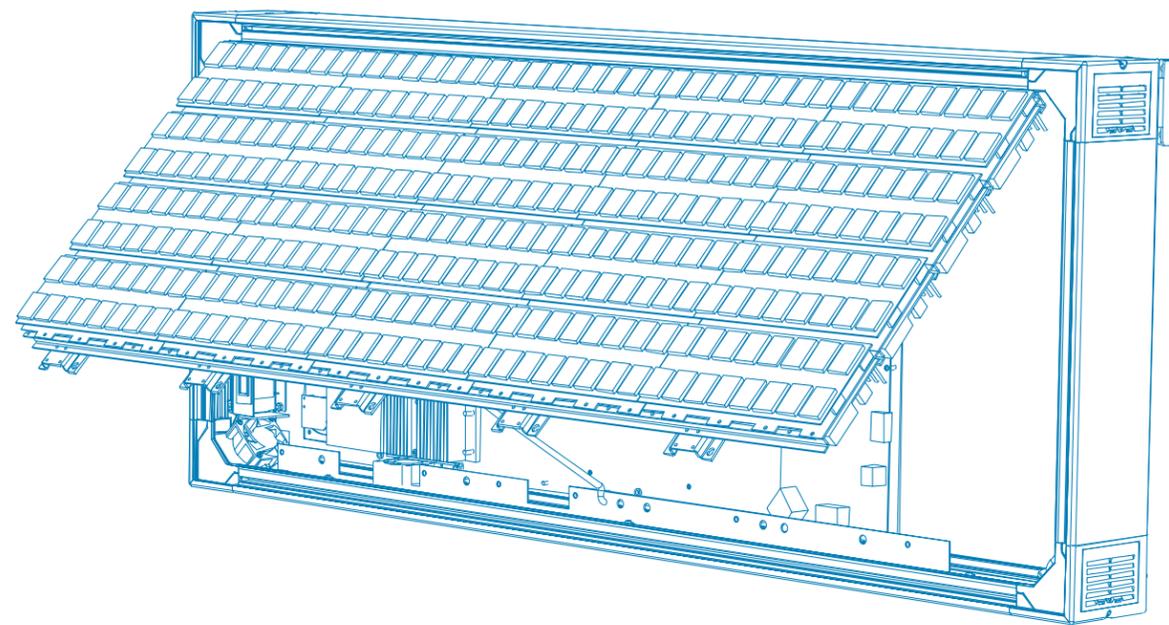
Networking Options - Network with other standard ALPHA® LED displays and software/hardware information sources. RS232 and RS485 interface included; Ethernet interface optional.

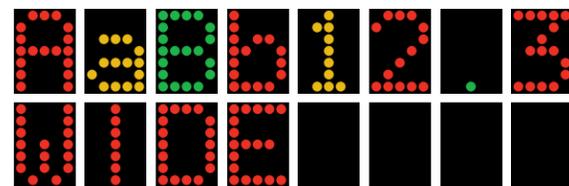**Easy to See** - Bright, high resolution LEDs with a wide viewing angle.

Many Message Capabilities - 8 message modes such as wipe, flash, and variable speeds. ASCII character set including international characters. Real-time clock/calendar with battery-backed memory supports easy posting of date and time.
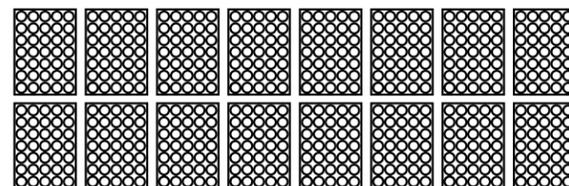
AGENCY APPROVALS:
–ETL, ETL-C, CE –Safety certified to EN60950
–FCC Class A emissions –ETL listed to ANSI/UL 1950
–EN55022 Class A –CAN/CSA 950 #22.2 M89
–EN 50082-2 immunity
  using IEC 801-2,3,4,6,8

CHARACTER MATRIX DISPLAY

(Ideal for alpha-numeric information)

(Fixed spacing between characters)

The character matrix version features individual LED characters with horizontal and vertical spacing between each character. Ideal for the static display of alphanumeric character (text only) information.

INDUSTRIAL AUTOMATION
- Provides an excellent method to communicate real-time production statistics and alarms to the manufacturing floor. Because this information is available to all employees on the plant floor in real-time, teams can proactively address production issues before they become a major problem. Real-time interfaces to major HMI software systems, PLCs, and discrete inputs.

BENEFITS
–Over 30% productivity improvements achieved through increased efficiency, reduced downtime, decreased scrap.

–Employees see immediate status and progress of their manufacturing lines and can adjust manufacturing pace when required.

–Centrally located displays enable employees to see important information and alarms immediately without having to go to and read small operator interfaces.

–Lost time occurrences drop because maintenance or other support personnel don't have to be tracked down -- they see alarms themselves on the displays.

–More pertinent information is displayed than on an Andon board.

THEATRES
- The ultimate communication tool to route theatre customers to the correct auditorium while at the same time advertising current and upcoming shows. Its high tech design and colorful messages enhance any theatre atmosphere. FS models also help to promote and increase on-premise sales of concession items and reduce labor costs normally associated with changing auditorium graphics and replaceable letters on letter-boards. Real-time interfaces to Point of Sale software.

BENEFITS
–Customers see all required information on displays located at Box Office: titles, times, houses, shows sold out, and special advertisements and announcements.

–The displays reduce the effort required to update signs that change often, replacing outdated and labor-intensive letter-boards and static graphics.

–Directional displays for hallways and house displays efficiently route customers to the correct auditorium, allowing customers to spend extra time in concessions.

–Displays effectively promote sales of concession products and special events.

TRANSPORTATION
- Provides accurate and timely information to your passengers. FS LED displays deliver flight, train or bus information to passengers in bright, easy to read characters. It can be easily interfaced to most passenger information software packages to display critical information including: arrivals, departures, gate number, vehicle location, time of day, etc. Information is updated quickly and easily. Real-time interfaces to FIDS, BIDS, PIS, and AVL systems.

BENEFITS
–Customers see all pertinent information on displays located at the Ticket Counter including schedules, ticket prices, special discounts, and upcoming promotions.

–Large display letters are easier to read than TV monitors, which reduces congestion in the hallways and speeds customers on their way.

–Images will not "burn in" on LED screens as with TV monitors.

–Little to no maintenance required.