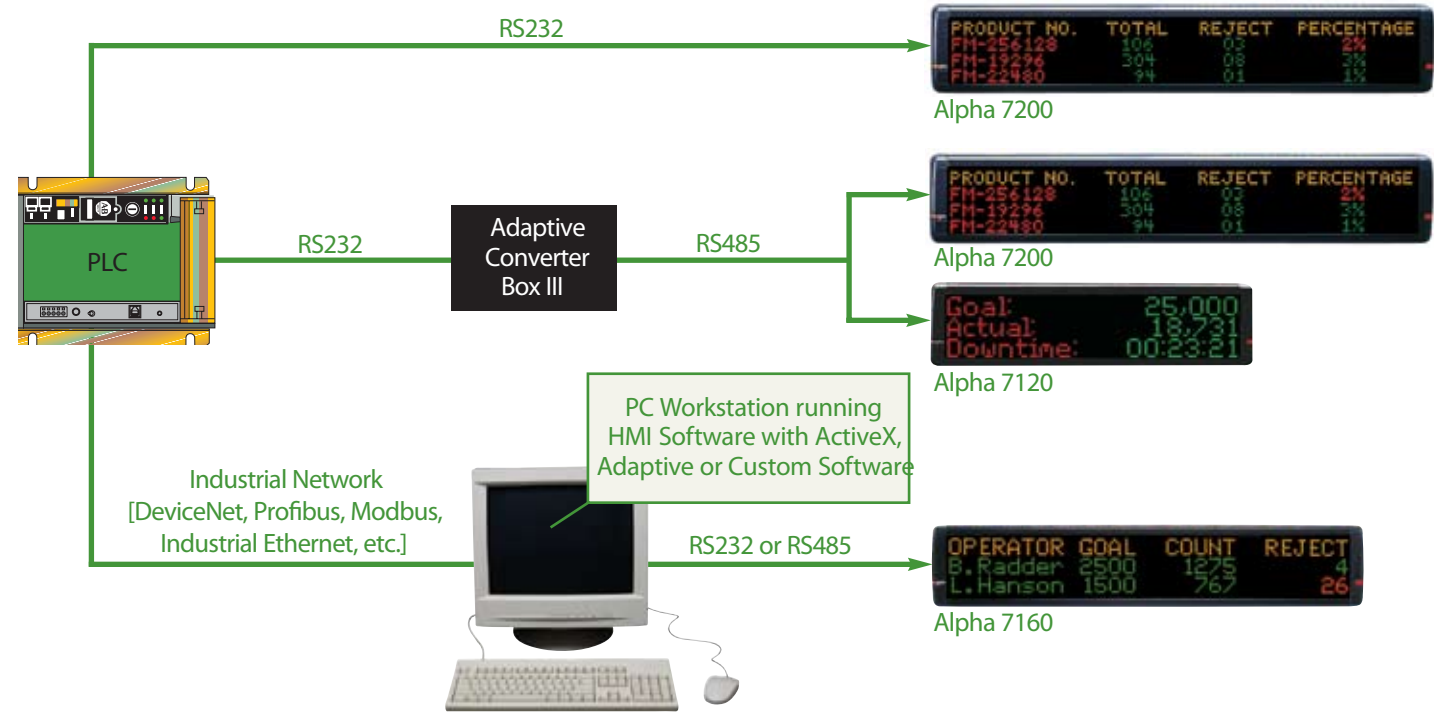
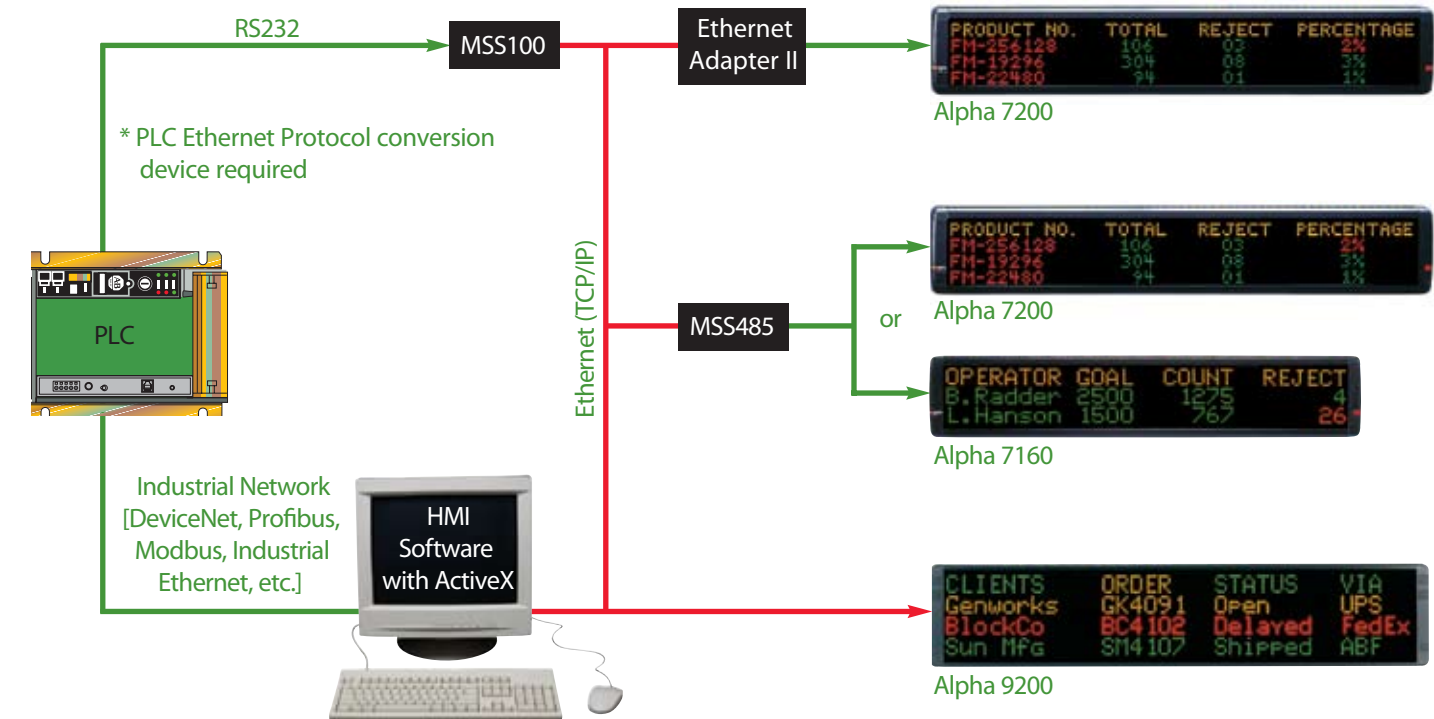


CONNECTIVITY SOLUTIONS

Serial Configurations

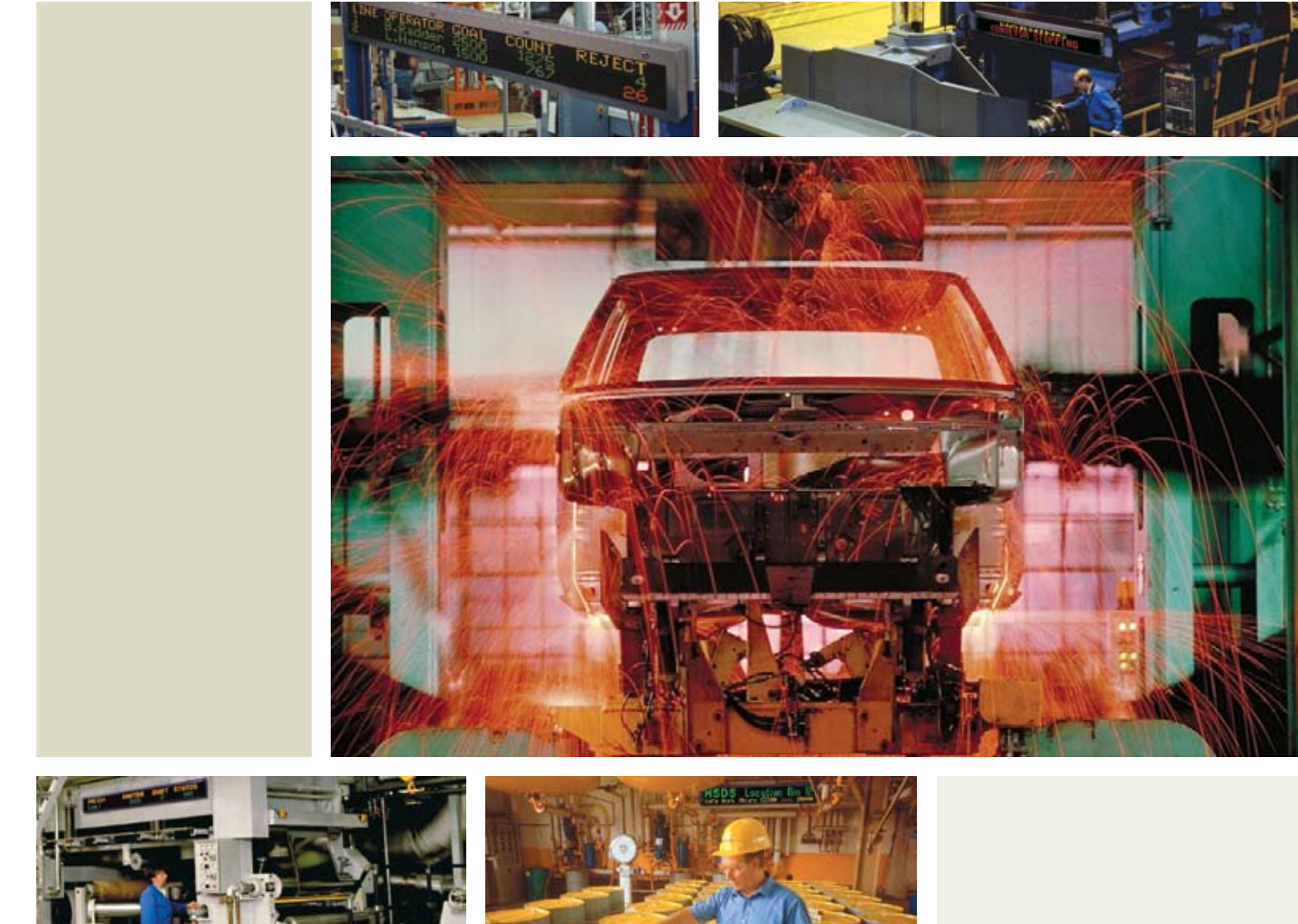


Ethernet Configurations



Visual Workplace Solutions

Alpha LED Marquees



ENTECH Signs- alpha led
 1905 West Arbor Rose
 Grand Prairie, TX 75050
 972-641-0390 voice
 972-606-0072 fax
www.alpha-led.com
www.ledticker.com

PRODUCTIVITY SOLUTIONS

Put Your Data to Work for You

The foundation of Lean Manufacturing and other productivity programs lies in identifying and measuring Key Performance Indicators (KPIs). ENTECH's marquees allow these KPIs to be displayed for your entire workforce to see without having to walk up to a monitor or bulletin board. Just like at a sporting event, where the coaches, players and fans depend upon the scoreboards, production displays can serve the exact same function in any workplace.

Discover the power that real-time data can give your workforce. Discover Alpha LED displays.

Choosing the Right LED Display

Alpha LED displays properly applied in the workplace can improve productivity, increase safety awareness and improve morale, by keeping your workforce informed and updated at all times.

The most important attributes of Alpha LED displays are:

- 100,000 hours mean time before failure (MTBF)
- They can be viewed from a great distance compared to other technologies.
- They're easy to connect to live data feeds of important information.
- They integrate to existing networks.
- The bright, active display technology attracts attention and is hard to ignore.

Here are some simple guidelines for choosing the right LED message display.

#1 – Character size – How can I be sure people can read it?

Decide where the display will be placed and estimate the typical and maximum viewing distance. This will determine how large the text needs to be for optimum readability.

The typical "rule of thumb" is 1" of character height for every 50 feet of maximum viewing distance. Therefore, a standard 2" character can be read from 100 feet away and a 4" character can be read from 200 feet away.

#2 – Display size – How big of a display do I really need?

The second most important selection criteria is determining how much data needs to be shown at one time. LED displays can cycle through long messages and stream data automatically, but the viewer may need to wait to see the information that is most relevant. Of course, LED displays can be built to nearly any size, but the bigger they are, the more expensive they get. It is important to optimize your investment while insuring that the most important data is always shown for quick viewing.

#3 – Data source – Where is the information coming from?

Alpha displays offer a broad variety of communications interfaces that will plug into your existing systems, without costing a fortune in integration services.

Open Architecture

Alpha displays allow the use of ActiveX controls and Alpha protocol for using OPC, ODBC and DDE transfer data within your existing plant network. Both Ethernet TCP/IP and serial solutions along with a variety of software packages are available.

ENTECH'S PRODUCT SELECTION GUIDE

ONE LINE MARQUEES

MACHINE STOPPED

215C

PARTS COUNT 9800

220C

Emergency FIRE Zone 12.

320C

Today's SAFETY IDEA -- remember...

330C

GOAL: 2250

BIG DOT

TWO-LINE MARQUEES

CONVEYOR STOPPED
PART JAMMED

4120C

Alarm - Weld tip 18 wear
Fault - Gate 12 Open

4160C

INSTANTLY COMMUNICATE VITAL SAFETY
QUALITY/PRODUCTION DATA TO EMPLOYEES

4200C

CONVEYOR# RUNTIME SHIFT STATUS
Tool Line 1 2433 2 84%

4240C

THREE+ LINE MARQUEES

CAUTION !!
Hard hat area

7120C

Safety records, help desk
alerts, ACD Statistics
ALPHA ... Get the message !!

7160C

PRODUCT NO. TOTAL REJECT PERCENTAGE
PM-256128 104 03 3%
PM-19296 304 08 3%
PM-22490 94 01 1%

7200C

FOUR+ LINE MARQUEES

PART GOAL ACTUAL
325H 3225 2011
4N2W 1000 0622
249C 0875 0713

9120C

OSHA VISIT
September 4-6

9160C

CLIENTS ORDER STATUS VIA
Genworks GK4091 Open UPS
BlockCo BC4102 Delayed FedEx
Sun Mfg SM4107 Shipped ABF

9200C

Line Part# Total Rejects% Setup
1 AL-2846 1289 12% 200
2 CD-4522 989 8% 304
3 PG-3323 2466 4% 40

9240C

Display Products:		215C	220C	320C	330C	BIG DOT	4120C	4160C	4200C	4240C	7120C	7160	7200C	9120eC	916e0C	9200C	9240C
Display Capacity (number of characters shown at one time)	1.5" characters - readable from 75'	NA	NA	NA	NA	NA	2 lines of 20	2 lines of 26	2 lines of 33	2 lines of 40	4 lines of 24	4 lines of 32	4 lines of 40	5 lines of 24	5 lines of 32	5 lines of 40	5 lines of 48
	2" characters - readable from 100'	1 line of 15	1 line of 20	NA	NA	NA	2 lines of 20	2 lines of 26	2 lines of 33	2 lines of 40	3 lines of 20	3 lines of 26	3 lines of 33	4 lines of 20	4 lines of 26	4 lines of 33	4 lines of 40
	3" characters - readable from 150'	NA	NA	1 line of 20	1 line of 30	NA	NA	NA	NA	NA	2 lines of 20	2 lines of 26	2 lines of 33	3 lines of 13	3 lines of 17	3 lines of 22	3 lines of 26
	4" characters - readable from 200'	NA	NA	NA	NA	1 line of 13	1 line of 12	1 line of 16	1 line of 20	1 line of 24	1 line of 12 (7" char.)	1 line of 16 (7" char.)	1 line of 20 (7" char.)	2 lines of 13	2 lines of 17	2 lines of 22	2 lines of 26
Center to Center Pixel Spacing (pitch):		.3"	.3"	.45"	.45"	.57"	.3"	.3"	.3"	.3"	.3"	.3"	.3"	.3"	.3"	.3"	.3"
Display Dimensions / LxH (inches): Display Dimensions / LxH (cm):		27" x 2.1" 68.6 x 5.3	36" x 2.1" 91.4 x 5.3	54" x 3.1" 137.2 x 7.9	81" x 3.1" 205.7 x 7.9	45.6" x 4" 15.8 x 10.2	36" x 4.8" 91.4 x 12.2	48" x 4.8" 121.9 x 12.2	60" x 4.8" 152.4 x 12.2	72" x 4.8" 182.8 x 12.2	36" x 7.2" 91.4 x 18.3	48" x 7.2" 121.9 x 18.3	60" x 7.2" 152.4 x 18.3	36" x 9.6" 91.4 x 24.4	48" x 9.6" 121.9 x 24.4	60" x 9.6" 152.4 x 24.4	72" x 9.6" 182.9 x 24.4
Case Dimensions / LxHxD (inches): Case Dimensions / LxHxD (cm):		28.9" x 4.5" x 2.1" 73.4 x 11.4 x 5.3	37.7" x 3.8" x 2.9" 95.8 x 9.6 x 7.4	57.4" x 5.5" x 3.8" 145.8 x 14 x 9.7	84.4" x 5.5" x 3.8" 214.3 x 14 x 9.7	49" x 6.25" x 4.25" 124.5 x 16 x 11	40.1" x 7.7" x 5.5" 101.9 x 19.6 x 14	52.1" x 7.7" x 5.5" 132.3 x 19.6 x 14	64.1" x 7.7" x 5.5" 162.8 x 19.6 x 14	76.1" x 7.7" x 5.5" 193.3 x 19.6 x 14	40.3" x 10" x 5.6" 102.4 x 25.4 x 14.2	52.3" x 10" x 5.6" 132.9 x 25.4 x 14.2	64.3" x 10" x 5.6" 163.3 x 25.4 x 14.2	40" x 12" x 2.2" 101.6 x 30.4 x 5.5	52.2" x 12" x 2.2" 132 x 30.4 x 5.5	64" x 12" x 2.2" 162.5 x 30.4 x 5.5	76" x 12" x 2.2" 193 x 30.4 x 5.5
Approximate Weight (lbs. & kg):		6.25 lbs. (2.8 kg)	4.7 lbs. (2.1 kg)	2.5 lbs. (5.7 kg)	17 lbs. (7.7 kg)	12.25 lbs (5.6 kg)	18.5 lbs. (8.4 kg)	24.5 lbs. (11.2 kg)	31 lbs. (14.1 kg)	37.5 lbs (17 kg)	20 lbs. (9.1 kg)	26 lbs. (11.8 kg)	32 lbs. (14.5 kg)	23 lbs. (10.4 kg)	31 lbs. (11.8 kg)	36 lbs. (16.3 kg)	41 lbs. (18.6 kg)
Case Ratings:		NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1	NEMA 1 (standard) NEMA 12 (optional)	NEMA 1 (standard) NEMA 12 (optional)	NEMA 1 (standard) NEMA 12 (optional)	NEMA 1 (standard) NEMA 12 (optional)	NEMA 1 (standard) NEMA 4 (optional) NEMA 4X (optional)	NEMA 1 (standard) NEMA 4 (optional) NEMA 4X (optional)	NEMA 1 (standard) NEMA 4 (optional) NEMA 4X (optional)	NEMA 1	NEMA 1	NEMA 1	NEMA 1
Power Rating:		120/230 VAC 50/60 Hz	120/240 VAC 50/60 Hz	120/230 VAC 50/60 Hz	120/230 VAC 50/60 Hz	120/230 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz	100-240 VAC 50/60 Hz
Operating Temperature:		0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C	0° to 50°C
Display Operating System Options:		Alpha	Alpha	Alpha	Alpha	Alpha	Alpha or Alpha Industrial	Alpha or Alpha Industrial	Alpha or Alpha Industrial	Alpha or Alpha Industrial	Alpha or Alpha Industrial	Alpha or Alpha Industrial	Alpha or Alpha Industrial	Alpha	Alpha	Alpha	Alpha
Communications Support:	Ethernet (TCP/IP):	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	ext. option	internal option	internal option	internal option	internal option
	RS232:	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
	RS485:	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard

ENTECH SIGNS
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www.alpha-led.com
www.ledticker.com