

Numeric Displays

Choose one of our numeric display models to monitor count, rate, down time, cycle time, target count, efficiency or variance.



Information Displays

Display real-time production information to your floor personnel.



Production Scoreboards

Improve productivity and cost effectiveness with any of our industrial scoreboards.



Safety Scoreboards

Increase your employees awareness of safety issues, help prevent accidents in the workplace and reduce liability costs.

Electronic Displays, Inc.

EDI
Specialists in Information Displays

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History of EDI

*Electronic Displays, Inc. specializes in large LED digit technology and applications. Established in 1982, our product line includes: **counters, timers, industrial scoreboards and moving message marquees.***

EDI moved into its new manufacturing site, outside Chicago, in 1995. With over 25,000 square feet this facility houses all of our production needs, including software development, circuit board design, systems integration and full-service engineering and manufacturing of our products. Targeting the global market, Electronic Displays, Inc. has set up an international division to continue the expansion and growth of the business.

With over 20 years experience in the Information Communication Industry, EDI has improved efficiency, productivity and enhanced lean manufacturing for thousands of customers including top Fortune 500 companies



Indoor / Outdoor Custom Safety Scoreboards

Design Your Safety Scoreboard!

Whether it's indoors or outdoors, EDI can build YOUR safety scoreboard. Fields can increment automatically every 24 hours with our rate over time displays.

PC / PLC Controlled / Photo Eye
Pushbutton (Optional)



Keypad
Optional

Perfect for "Days Since Last Injury"

Send us your design.
We can make both indoor
and outdoor models!



FEATURES

- Increment by One every 24 hours *OR* Decrement by One every 24 hours
- Battery backup to keep Internal timing
- IR Remote to easily program
- Decimal point pulses when the unit is running

WHAT'S IN THE BOX

- Bright 3" or 8" high numbers
- Battery backup to retain the last number displayed
- 5 ft., 120VAC power plug
- IR Remote with battery
- Mounting brackets
- Complete Instructions
- Factory service one-year warranty on parts and labor
- Unlimited technical phone support

SAFETY DISPLAYS



135 S. Church Street • Addison, IL 60101
Phone: 630-628-0658 • Toll-Free: 800-367-6056 • Fax: 630-628-0936
www.electronicdisplays.com

LED Double-Line Message Centers

6 to 64 Characters

EDV111 Series



These double-line, tri-color models are a ready-to-run indoor message sign board. Using 5mm Super bright tri-color LEDs, it can store up to 100 messages or a total length of characters not to exceed 7000. Ideal to display production numbers, employee messages and lean manufacturing data. Multi-color message centers let you specify red, green and yellow characters or any combination of these to get your message across. Ideal to promote your business, safety messages, employee messages and more.

Communication Options

1) Ethernet IP

Sample Add On Instructions Provided.

At this time only Allen Bradley

CompactLogix and ControlLogix PLC

CPUs that use RS Logix 5000 software are supported. Sample projects can be downloaded from the Electronic Displays, Inc. website. Allen Bradley Micrologix, SLC500 or PLC5 PLC CPUs are **NOT supported** using RS Logix 5000 software. Please refer to the ASCII protocol manual for examples.

Typically, you will need to connect the serial port from the PLC directly to the LED sign using the DF1 channel 0 port with these types of PLCs.

Add-on instructions provided are used to make ladder logic based programming very easy. These set of AOIs can be imported into your project and reused in ladder flow.



FEATURES

- PLC Interface - Sample AOI's Provided
- Ethernet IP Ready
- Bright, Multicolor Display w/ ASCII Protocol To Incorporate Into Existing Software
- 15 Foot, RS232 Data Cable
- 12 Foot, 120VAC Power Plug
- 160 Degree Viewing Angle
- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support

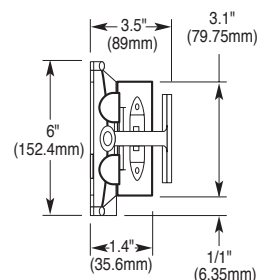
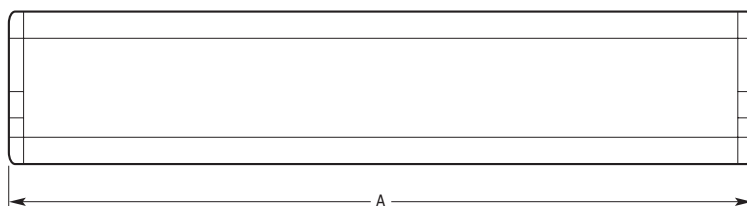
2) Ethernet Interface

All EDI models are available with high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows the marquee to reside on a 10/100 Mbps TCP/IP network (10 Base/100 Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of the EDI marquees with 100 meters being the maximum distance between two nodes. For distances greater than 100 meters repeaters can be used to extend the distance between any two nodes.



MESSAGE CENTERS & ANNUNCIATORS

TECHNICAL INFORMATION



Part. No.	EDV111-1680-MC	EDV111-16128-MC	EDV111-16160-MC	EDV111-16240-MC	EDV111-16320-MC
Dimension A	26" (660.4mm)	40" (1016mm)	52" (1320.8mm)	73" (1854.2mm)	96" (2438.4mm)

Cat. No.	Power	No. of Characters/Line (max.)	Character size Array	Pixel Size Diameter Pixel Pitch	Pixel Color	Weight	Max. viewing distance w/largest font*	Message Capacity	Operating Environment	Case Dimensions / Display Dimensions
EDV111-1680-MC	120V AC ± 10% 40 watt max.	One line 8 Two lines 16	One line 4.6" Two line 2.0" Array 80 x 16 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	15 lbs.	200 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	26"L 3"D 6"H/ 4.7"H 24.4"L
EDV111-16128-MC	120V AC ± 10% 40 watt max.	One line 12 Two lines 24	One line 4.6" Two line 2.0" Array 120 x 16 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	20 lbs.	200 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	40"L 3"D 6"H/ 4.7"H 38.4"L
EDV111-16160-MC	120V AC ± 10% 40 watt max.	One line 16 Two lines 32	One line 4.6" Two line 2.0" Array 160 x 16 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	25 lbs.	200 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	52"L 3"D 6"H/ 4.7"H 50.4"L
EDV111-16240-MC	120V AC ± 10% 50 watt max.	One line 24 Two lines 38	One line 4.6" Two line 2.0" Array 240 x 16 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	30 lbs.	200 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	73"L 3"D 6"H/ 4.7"H 70.4"L
EDV111-16320-MC	120V AC ± 10% 100 watt max.	One line 32 Two lines 64	One line 4.6" Two line 2.0" Array 320 x 16 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	35 lbs.	200 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	96"L 3"D 6"H/ 4.7"H 94.4"L

*Seven fonts available including wide, bold and international character sets.

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LED Multi-Line Message Centers

Up to 4 lines of Text

8 to 64 Characters

EDV111 Series



These multi-line, tri-color models are a ready-to-run indoor message sign board. Using 5mm Super bright tri-color LEDs, it can store up to 100 messages or a total length of characters not to exceed 7000. Ideal to display production numbers, employee messages and lean manufacturing data. Multi-color message centers let you specify red, green and yellow characters or any combination of these to get your message across. Ideal to promote your business, safety messages, employee messages and more.

Communication Options

1) Ethernet IP

Sample Add On Instructions Provided.

At this time only Allen Bradley

CompactLogix and ControlLogix PLC CPUs that use RS Logix 5000 software are supported. Sample projects can be downloaded from the Electronic Displays, Inc. website. Allen Bradley Micrologix, SLC500 or PLC5 PLC CPUs are **NOT supported** using RS Logix 500 software. Please refer to the ASCII protocol manual for examples. Typically, you will need to connect the serial port from the PLC directly to the LED sign using the DF1 channel 0 port with these types of PLCs.



Add-on instructions provided are used to make ladder logic based programming very easy. These set of AOIs can be imported into your project and reused in ladder flow.

2) Ethernet Interface

All EDI models are available with high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows the marquee to reside on a 10/100 Mbps TCP/IP network (10 Base/100 Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of the EDI marquees with 100 meters being the maximum distance between two nodes. For distances greater than 100 meters repeaters can be used to extend the distance between any two nodes.

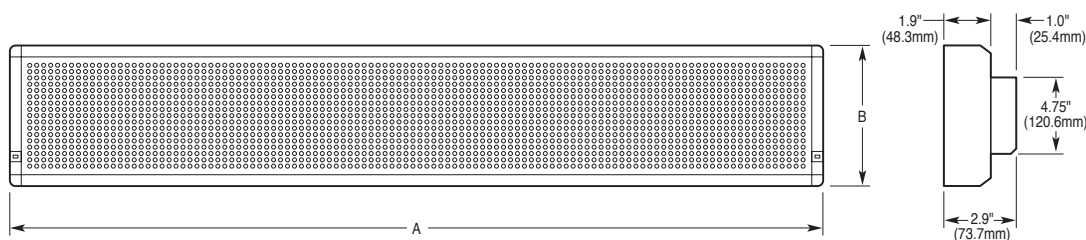
FEATURES

- PLC Interface - Sample AOI's Provided
- Ethernet IP Ready
- Bright, Multicolor Display w/ ASCII Protocol To Incorporate Into Existing Software
- 15 Foot, RS232 Data Cable
- 12 Foot, 120VAC Power Plug
- 160 Degree Viewing Angle
- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support



MESSAGE CENTERS & ANNUNCIATORS

TECHNICAL INFORMATION



Part. No.	EDV111-2480-MC	EDV111-24128-MC	EDV111-24160-MC	EDV111-24240-MC	EDV111-24320-MC
Dimension A	26" (660.4mm)	40" (1016mm)	49" (1244.6mm)	73" (1854.2mm)	96" (2438.4mm)
Dimension B	8.5" (215.9mm)	8.5" (215.9mm)	8.5" (215.9mm)	8.5" (215.9mm)	8.5" (215.9mm)

Cat. No.	Power	No. of Characters/Line (max.)	Character size Array	Pixel Size Diameter Pixel Pitch	Pixel Color	Weight	Max. viewing distance w/largest font*	Message Capacity	Operating Environment	Case Dimensions / Display Dimensions
EDV111-2480-MC	120V AC ± 10% 40 watt max.	One line 8 Two line 7 Three line 14 Four line 16	1 line 4.4"/7.0" 2 line 3.0" 3 line 2.0" 4 line 1.4" Array 24 x 80 pixels	.2" (5mm) .08" (20mm)	8 colors and 5 rainbow effects	13 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	26"L 3"D 8.5"H/ 7.1"H 24.4"L
EDV111-24128-MC	120V AC ± 10% 40 watt max.	One line 13 Two line 10 Three line 19 Four line 24	1 line 4.4"/7.0" 2 line 3.0" 3 line 2.0" 4 line 1.4" Array 24 x 120 pixels	.2" (5mm) .08" (20mm)	8 colors and 5 rainbow effects	19 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	40"L 3"D 8.5"H/ 7.1"H 38.4"L
EDV111-24160-MC	120V AC ± 10% 40 watt max.	One line 19 Two line 15 Three line 28 Four line 32	1 line 4.4"/7.0" 2 line 3.0" 3 line 2.0" 4 line 1.4" Array 24 x 160 pixels	.2" (5mm) .08" (20mm)	8 colors and 5 rainbow effects	25 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	49"L 3"D 8.5"H/ 7.1"H 47.4"L
EDV111-24240-MC	120V AC ± 10% 50 watt max.	One line 26 Two line 20 Three line 38 Four line 48	1 line 4.4"/7.0" 2 line 3.0" 3 line 2.0" 4 line 1.4" Array 24 x 240 pixels	.2" (5mm) .08" (20mm)	8 colors and 5 rainbow effects	31 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	73"L 3"D 8.5"H/ 7.1"H 71.4"L
EDV111-24320-MC	120V AC ± 10% 100 watt max.	One line 38 Two line 30 Three line 56 Four line 64	1 line 4.4"/7.0" 2 line 3.0" 3 line 2.0" 4 line 1.4" Array 24 x 320 pixels	.2" (5mm) .08" (20mm)	8 colors and 5 rainbow effects	37 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	96"L 3"D 8.5"H/ 7.1"H 94.4"L

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MESSAGE CENTERS & ANNUNCIATORS

LED Multi-Line Message Centers

Up to 5 lines of Text
6 to 64 Characters

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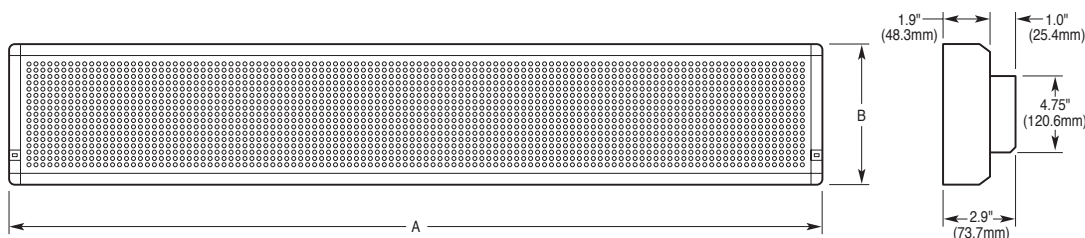
FEATURES

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- 15 Foot, RS232 Data Cable
- 12 Foot, 120VAC Power Plug
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- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support



MESSAGE CENTERS & ANNUNCIATORS

TECHNICAL INFORMATION



Part. No.	EDV111-3280-IND	EDV111-32128-IND	EDV111-32160-IND	EDV111-32240-IND	EDV111-32320-IND
Dimension A	26" (660.4mm)	40" (1016mm)	49" (1320.8mm)	73" (1854.2mm)	96" (2438.4mm)
Dimension B	11" (279.4mm)	11" (279.4mm)	11" (279.4mm)	11" (279.4mm)	11" (279.4mm)

Cat. No.	Power	No. of Characters/Line (max.)	Character size Array	Pixel Size Diameter Pixel Pitch	Pixel Color	Weight	Max. viewing distance w/largest font*	Message Capacity	Operating Environment	Case Dimensions / Display Dimensions
EDV111-3280-IND	120V AC ± 10% 40 watt max.	One line 8 Two line 10 Four line 13 Five line 16	1 line 4.4"/7.0" 2 line 3.0" 4 line 2.0" 5 line 1.4" Array 32 x 80 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	15 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	26"L 3"D 11"H/ 9.5"H 24.4"L
EDV111-32128-IND	120V AC ± 10% 40 watt max.	One line 14 Two line 16 Four line 21 Five line 25	1 line 4.4"/7.0" 2 line 3.0" 4 line 2.0" 5 line 1.4" Array 32 x 128 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	20 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	40"L 3"D 11"H / 9.5"H 38.4"L
EDV111-32160-IND	120V AC ± 10% 40 watt max.	One line 17 Two line 20 Four line 27 Five line 32	1 line 4.4"/7.0" 2 line 3.0" 4 line 2.0" 5 line 1.4" Array 32 x 160 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	25 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	49"L 3"D 11"H / 9.5"H 47.4"L
EDV111-32240-IND	120V AC ± 10% 50 watt max.	One line 26 Two line 29 Four line 40 Five line 48	1 line 4.4"/7.0" 2 line 3.0" 4 line 2.0" 5 line 1.4" Array 32 x 240 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	35 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	73"L 3"D 11"H / 9.5"H 71.4"L
EDV111-32320-IND	120V AC ± 10% 100 watt max.	One line 35 Two line 40 Four line 53 Five line 64	1 line 4.4"/7.0" 2 line 3.0" 4 line 2.0" 5 line 1.4" Array 32 x 320 pixels	.2" (5mm) .3" (7.68mm)	8 colors and 5 rainbow effects	45 lbs.	350 ft.	100 different messages can be stored & displayed, 28,000 characters	32-120°F 0-95% relative humidity non-condensing	96"L 3"D 11"H / 9.5"H 94.4"L

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An **ANDON** is a visual and audible response notification tool (Jidoka), which is comprised of various combinations of lights and sounds. When production personnel have any issue on the floor, they simply turn on the ANDON to signal for help.

Once the system is turned on, the lights and sounds alert the support personnel who can quickly address the problem.

An ANDON promotes visual factory and serves two goals. First, it enables the production personnel to remain at their workstation when they have an issue.

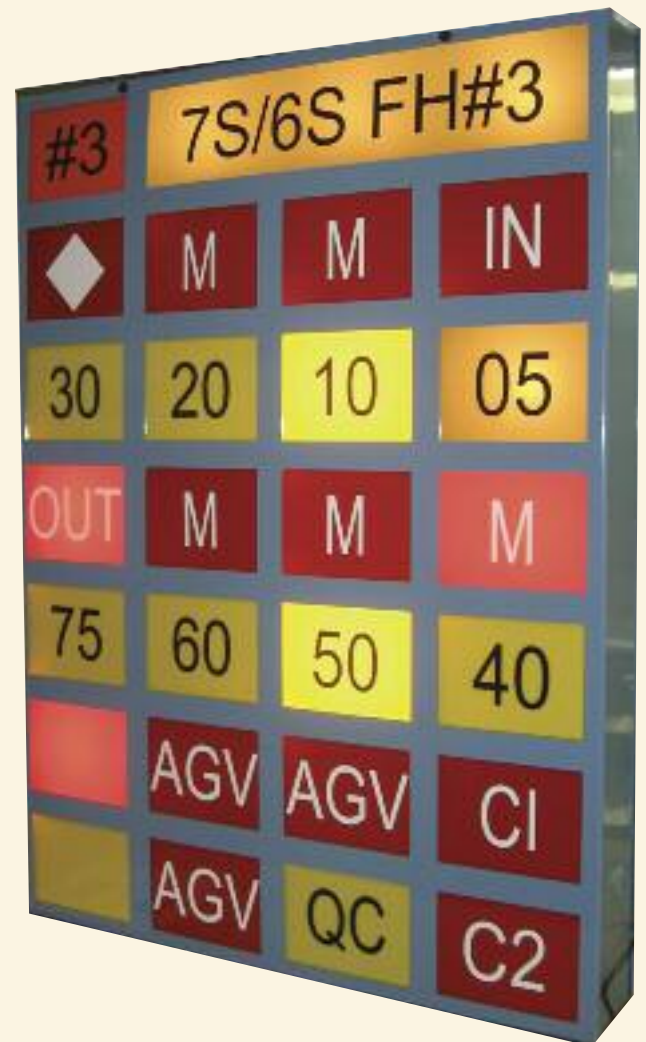
Second, it reduces response time and more efficiently gets the support personnel to the line where they are needed to get the line back up and running.

What an ANDON System Does

- Allows timely corrective actions by alerting personnel when abnormal conditions occur.
- Allows team leaders to spend less time and effort monitoring the situation, and more time solving abnormalities.
- Allows operation teams to monitor equipment and personnel more effectively.
- It can act as a two way communication device e.g. when indicator returns to green; this tells everybody it has “back to normal”.

The Direct Benefits of an ANDON System

- Control of the production.
- Operators have the ability to “stop call wait”.
- Defect reportability & correction, operators can report faults immediately and countermeasures can be implemented at source.
- Workable design highlights problems with work density.



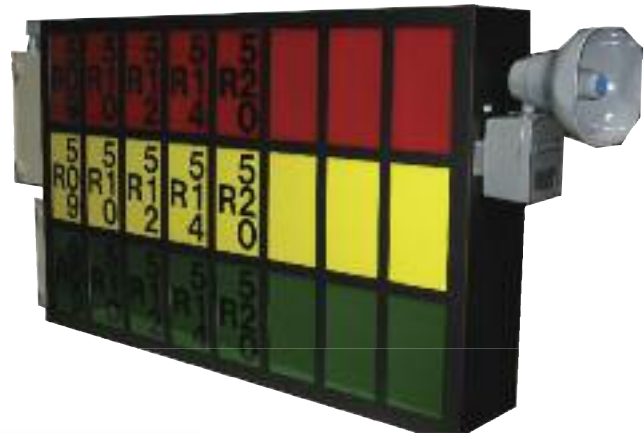
- Factory Direct Sales
- Worldwide Sales
- Ultra-High Precision Oscillator
- Super-Bright LEDS
- Anodized Aluminum Frame

ANDON SYSTEMS

What's An ANDON?

An ANDON is a visual and audible response notification tool (Jidoka), which is comprised of various combinations of lights and sounds. When production personnel have any issue on the floor, they simply turn on the ANDON to signal for help. Once the system is turned on, the lights and sounds alert the support personnel who can quickly address the problem.

An ANDON promotes visual factory and serves two goals. First, it enables the production personnel to remain at their workstation when they have an issue. Second, it reduces response time and more efficiently gets the support personnel to the line where they are needed to get the line back up and running.



OPERATION	GOAL	ACTUAL	SCRAP
CELL #1			
A61	023	342	008
CAPS	654	008	042
A71	023	023	066
CELL #2			
A61	067	066	008
CAPS	087	654	008
A71	074	066	008

HOT MELT	ALL GOOD	NOT SCHED. PLAY DOWN	MACH. UTIL. %		
50"	●	●	11	12	13
60"	●	●	21	22	23
24-1	●	●	31	32	33
24-2	●	●	41	42	43
NWSI	●	●	51	52	53
NWSI	●	●	61	62	63
C1	●	●	71	72	73
C2	●	●	81	82	83
C3	●	●	91	92	93



NO. 1 L/P CASTING LINE											
1	2	3	4	5	6	16	17	35	36		
1	2	3	4	5	6	16	17	35	36		
SV	CO	RE	CA	ST	FN	SH	FI	NL			
M/H	CO	RE	CA	ST	FN	SH	FI	NL			

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4 Digit Up-Timers

102 Series

1 line of text

4 Characters

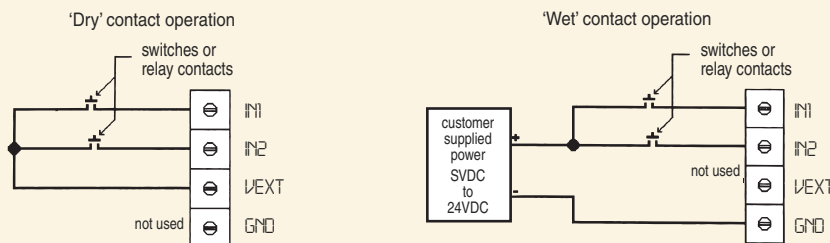


2.25" and 4" Bar Segment



6" / 8" and 12"
Dot Matrix

A four digit up-timer, that times by MM:SS or HH:MM. Other formats are available (see next page). A terminal strip is provided to wire two customer-supplied, contact closure inputs for counting and resetting to "00:00". Either a "wet" or "dry" contact can be used. EDI supplies an on-board power supply (14VDC) to hardwire a photo-eye, foot switch, push-button switch, etc. The timer starts at "00:00" and increments by the specified time using an on/off switch. A momentary switch will reset the unit to "00:00. Up to 12 digits available.



Two types of wiring inputs are provided. A "wet" contact is designed for the customer to apply a voltage to activate the display. A "dry" contact is activated by using an on-board voltage (14VDC) that allows the customer activate the display. Typical customer-supplied driving devices include a photo-eye, limit switch, PLC, etc.

FEATURES

- Long Durability - 10 Years
- Durable NEMA rated enclosure
- Mounting Brackets
- Low maintenance cost
- 6 ft. business line cord
- One-year limited warranty
- Low energy consumption
- Acrylic face
- Attention-getting LEDS

UP-TIMERS

TECHNICAL INFORMATION

Cat. No.	Power	No. of Characters/Line (max.)	Character size Array	Pixel Size Diameter Pixel Pitch	Pixel Color	Weight	Max. viewing distance w/largest font*	Operating Environment	Case Dimensions / Display Dimensions
ED206-102-4D-N1	120V AC \pm 10% 40 watt max.	One line 4	2.25"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	6 lbs.	100 ft.	32-120°F 0-95% relative humidity non-condensing	12"L 2.5"D 4"H 2.5"H 10.4"L
ED406-102-4D-N1	120V AC \pm 10% 40 watt max.	One line 4	4.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	10 lbs.	200 ft.	32-120°F 0-95% relative humidity non-condensing	20"L 2.5"D 8"H 6.5"H 18.4"L
ED600D-102-4D-N1	120V AC \pm 10% 40 watt max.	One line 4	6.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	16 lbs.	300 ft.	32-120°F 0-95% relative humidity non-condensing	26"L 2.5"D 9.5"H 7.9"H 24.4"L
ED800D-102-4D-N1	120V AC \pm 10% 50 watt max.	One line 4	8.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	32 lbs.	400 ft.	32-120°F 0-95% relative humidity non-condensing	36"L 2.5"D 11.5"H 9.9"H 34.4"L
ED1200D-102-4D-N1	120V AC \pm 10% 100 watt max.	One line 4	12.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	40 lbs.	600 ft.	32-120°F 0-95% relative humidity non-condensing	54"L 2.5"D 17.5"H 16.1"H 52.4"L
ED1800D-102-4D-N1	120V AC \pm 10% 100 watt max.	One line 4	18"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	58 lbs.	900 ft.	32-120°F 0-95% relative humidity non-condensing	74"L 2.5"D 23.3"H 21.8"H 72.4"L

OPTIONS

DISPLAY: Add 2 digits up to 12. | Green or Amber digits available
ENCLOSURE: **NEMA12 / NEMA4 or NEMA4X (stainless steel) enclosure**
OPERATION: Increment by MM:SS or HH:MM (Standard), other formats (see below)
RESOLUTION FORMATS: SS.TH - tenths and hundredths of a second
SSS.T - tenths of a second (3 positions for seconds)
MM:SS - minutes and seconds (standard)
MMM.S - tenths of a second (3 positions for minutes)
HH:MM - hours and minutes (standard)
HHH.M - tenths of minutes (3 positions for hours)
MM:SS:TH - minutes, seconds, tenths and hundredths of seconds
HH:MM:SS - hours, minutes, seconds
DD:HH:MM:SS - days, hours, minutes, seconds
OTHER: Optional battery backup for time memory upon loss of power
Relay output to activate an alarm, horn, light, etc. when unit reaches a preset value.
Optional Pollable Feature using a Serial Output
Optional Serial Preset and Control

Power Source: 120 Volts AC / 60 Hz.
Power Consumption: Max. 6 Watts
Current Draw: 1.0 - 3.0 Amps
Line Cord Length 6 Ft. Plug
Indoor / Outdoor: Indoor
Operating Environment: 32° - 120° F (0° - 49°C) / 0 - 90% Humidity
Number of Digits: 4 Digits
Viewing Distance: 1" = 40-50 Feet
LED Intensity: 10 MCD High-Intensity Digits/Discrete LEDs
LED Color: Red Standard (Green/Amber Optional)

LED Life: 100,000 Hours
UL Listed Power Supply: Yes
Enclosure Material: Rugged Aluminum Enclosure
Enclosure Color: Black Powder-Coat Finish (Scratch Resistant)
Enclosure Rating: NEMA1 Standard / NEMA12 Optional
Mounting Method: Brackets Provided for Ceiling/Wall Mount
Limited Warranty: Factory Service One-Year Parts & Labor

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ANALOG TO DIGITAL DISPLAYS



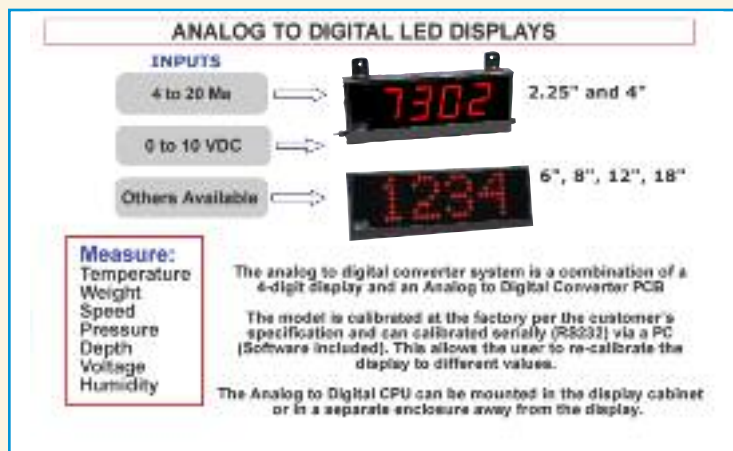
Outdoor Models Available

What's in the Box:

- Bright 2.25" / 4" / 6" / 8" or 12" LED Display with Four Digits
- Display Will Receive an Analog Input and Convert it to Digital
- Analog to Digital Display
- Terminal Block to Wire Customer Supplied Inputs (0 to 10VDC/4 to 20mA / More Available)
- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support

MEASURE

- Temperature
- Speed
- Depth
- Humidity
- Weight
- Pressure
- Voltage



Model Number	Digit Height	Length	Height	Depth
ED206-105-4D-N1	2.25"	12"	4"	2.5"
ED406-105-4D-N1	4.0"	20"	8"	2.5"
ED600D-1-105-4D-N1	6.0"	26"	9.4"	3"
ED800D-1-105-4D-N1	8.0"	36"	11.4"	3"
ED1200D-I-105-4D	12.0"	48"	17.6"	3"

ANALOG TO DIGITAL DISPLAYS

Available in double sided format



ED206-105-4D-N1

2.25" High, 4 Digit, Analog to Digital System. Indoor, 4- digit, Viewable up to 100 Feet Away
Standard 4 to 20 mA Input / Other Available Dimensions: 12"L x 4"W x 2.25"D

Keep your employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display. Standard analog inputs include: 4 to 20 mA or 0 to 10VDC. Others Available Upon Request.



ED406-105-4D-N1

4" High, 4 Digit, Analog to Digital System. CALL FOR QUANTITY DISCOUNTS! Indoor, 4- digit, Viewable up to 200 Feet Away Standard 4 to 20 mA Input / Other Available Dimensions: 20"L x 8"W x 2.25"D

Keep your employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display. Standard analog inputs include: 4 to 20 mA or 0 to 10VDC. Others Available Upon Request.



ED600D-105-4D-N1

6" High, 4 Digit, Analog to Digital System. Indoor, 4- Digit, Standard 4 to 20 mA Input / Other Available. Dimensions: 26" L x 9.4" H x 3.0" D

Keep you employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display.



ED800D-105-4D-N1

8." High, 4 Digit, Analog to Digital System. Indoor, 4- digit, Standard 4 to 20 mA Input / Other Available. Dimensions: 36" L x 11.4" H x 3.0" D

Keep your employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display.



12.0" High Digits
4 DIGITS

ED1200D-105-4D-N1

12.0 inch, 4 digit, Analog to Digital System. Indoor, 4- digit, Standard 4 to 20 mA Input / Other Available. Dimensions: 48" L x 17.62" H x 2.25" D

Keep you employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display.



OUTDOOR - ED1200D-E-105-4D-N4

12" High, 4 Digit, Analog to Digital System. Outdoor, 4- digit, Dimensions: 44" L x 15" H x 4" D



18.0" High Digits
4 DIGITS

ED1800D-I-105-4D-N4

18" High, 4 Digit, Analog to Digital System. Indoor, 4- digit, Dimensions: 69" L x 23.25" H x 3.0" D

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4 Digit Up-Counters

1 line of text

4 Characters

109 Series



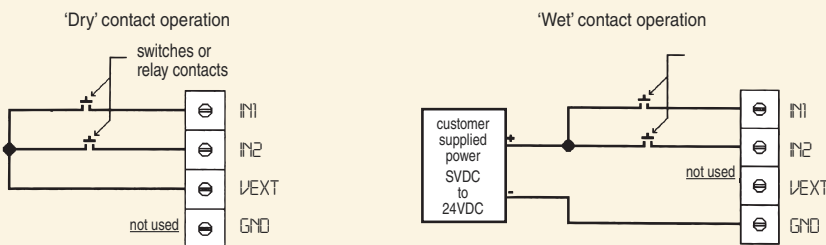
A four digit up-counter, that increments by one from "0" to "9999". A terminal strip is provided to wire two customer-supplied, contact closure inputs for counting and reset to 0. Either a "wet" or "dry" contact can be used. EDI supplies an on-board power supply to hardwire a photo-eye, foot switch, push-button switch, etc.

Options

- DISPLAY:** Add 2 digits up to 12. | Green or amber digits
- ENCLOSURE:** NEMA12 or NEMA4X (stainless steel) enclosure
- OPERATION:** Variable count: Increment by a different value (ex. count by 2 for every contact closure)
Multiple inputs: a secondary input will be used for incrementing or decrementing
- OTHER:** Battery backup to retain number of counts upon loss of power
Relay output to activate an alarm, horn, light, etc. when unit reaches a preset value
Polling option to a PC to record results

FEATURES

- Long Durability - 10 Years
- Durable NEMA rated enclosure
- Mounting Brackets
- Low maintenance cost
- 6 ft. business line cord
- One-year limited warranty
- Low energy consumption
- Acrylic face
- Attention-getting LEDs
- Option for 6, 8, 10, 12 digits



WIRING: Two types of wiring inputs are provided. A "wet" contact is designed for the customer to apply a voltage to activate the display. A "dry" contact is an on-board voltage that the customer uses to activate the display. Input specifications: 5 to 24VDC

UP-COUNTERS AND TOTALIZERS

TECHNICAL INFORMATION

INDOOR STYLE									
Cat. No.	Power	No. of Characters/Line (max.)	Character size Array	Pixel Size Diameter Pixel Pitch	Pixel Color	Weight	Max. viewing distance w/largest font*	Operating Environment	Case Dimensions / Display Dimensions
ED206-109-4D-N1	120V AC \pm 10% 40 watt max.	One line 4	2.25"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	6 lbs.	100 ft.	32-120°F 0-95% relative humidity non-condensing	12"L 2.5"D 4"H / 2.5"H 10.4"L
ED406-109-4D-N1	120V AC \pm 10% 40 watt max.	One line 4	4.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	10 lbs.	200 ft.	32-120°F 0-95% relative humidity non-condensing	20"L 2.5"D 8"H / 6.5"H 18.4"L
ED600D-109-4D-N1	120V AC \pm 10% 40 watt max.	One line 4	6.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	16 lbs.	300 ft.	32-120°F 0-95% relative humidity non-condensing	26"L 2.5"D 9.4"H / 7.9"H 24.4"L
ED800D-109-4D-N1	120V AC \pm 10% 50 watt max.	One line 4	8.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	32 lbs.	400 ft.	32-120°F 0-95% relative humidity non-condensing	36"L 2.5"D 11.4"H / 9.9"H 34.4"L
ED1200D-109-4D-N1	120V AC \pm 10% 100 watt max.	One line 4	12.0"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	40 lbs.	600 ft.	32-120°F 0-95% relative humidity non-condensing	54"L 2.5"D 17.6"H / 16.1"H 52.4"L
ED1800D-109-4D-N1	120V AC \pm 10% 100 watt max.	One line 4	18"	.2" (5mm) .08" (20mm)	Red (Standard) Green or Amber	58 lbs.	900 ft.	32-120°F 0-95% relative humidity non-condensing	74"L 2.5"D 23.3"H / 21.8"H 72.4"L
OUTDOOR STYLE									
Cat. No.	Power	No. of Characters/Line (max.)	Character size Array	Pixel Size Diameter Pixel Pitch	Pixel Color	Weight	Max. viewing distance w/largest font*	Operating Environment	Case Dimensions / Display Dimensions
ED400D-109-4D-N4	120V AC \pm 10% 40 watt max.	One line 4	4"	.2" (5mm) .08" (20mm)	Red	6 lbs.	200 ft.	32-120°F 0-95% relative humidity non-condensing	22"L 3"D 11"H / 9.5"H 20.4"L
ED600D-109-4D-N4	120V AC \pm 10% 40 watt max.	One line 4	6.0"	.2" (5mm) .08" (20mm)	Red	10 lbs.	300 ft.	32-120°F 0-95% relative humidity non-condensing	28"L 3"D 12"H / 10.5"H 26.4"L
ED800D-109-4D-N4	120V AC \pm 10% 40 watt max.	One line 4	8.0"	.2" (5mm) .08" (20mm)	Red	16 lbs.	400 ft.	32-120°F 0-95% relative humidity non-condensing	36"L 3"D 14"H / 12.5"H 34.4"L
ED1200D-109-4D-N4	120V AC \pm 10% 50 watt max.	One line 4	12.0"	.2" (5mm) .08" (20mm)	Red	32 lbs.	600 ft.	32-120°F 0-95% relative humidity non-condensing	51"L 3"D 21"H / 19.5"H 49.4"L
ED1800D-109-4D-N4	120V AC \pm 10% 100 watt max.	One line 4	18.0"	.2" (5mm) .08" (20mm)	Red	40 lbs.	900 ft.	32-120°F 0-95% relative humidity non-condensing	75"L 3"D 26"H / 24.5"H 73.4"L

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Rate Counters With Large, Bright LED Numbers



6", 8", 12", 18" DOT MATRIX



A multiple digit display that **increments by a user specified time and amount**. Free PC-based software or an optional remote keyboard (ED4150) can be used to present and run/hold the display.

Available with up to 16 Digits

Takt time indicates a pace or rate of manufacturing matched to customer demand. Takt time is used in lean manufacturing to align production time to demand where there are linked manufacturing processes. For example, advance by 3 every 10 seconds, advance by 1 every minute.

The display can also "freeze" (pause) and resume timing, reset to "0" by using the keypad (included) or through two customer-supplied cinctact closures. The increment value and the time interval are entered through the remote keypad (ED4150) or serially via a PC- based program (provided with the display).



PC Software Program

Available model lengths

	2.25"	4.0"
4 Digit Model	12"	16"
6 Digit Model	16"	20"
8 Digit Model	20"	34"
10 Digit Model	24"	42"
12 Digit Model	28"	50"
14 Digit Model	32"	58"
16 Digit Model	36"	64"

PERFECT FOR

- Assembly Line Production
- Exhibits and Museums
- Trade Shows
- Schools and Retail Locations

RATE OVER TIME COUNTERS (115 Models)

INCLUDES KEYPAD! Takt time indicates a pace or rate of manufacturing matched to customer demand. Takt time is used in lean manufacturing to align production time to demand where there are linked manufacturing processes. For example, advance by 3 every 10 seconds, advance by 1 every minute.

Available in double sided format



ED406-115-4D-N1-KY

4" High, 4 Digit Variable "Rate Over Time" Counter.
CALL FOR QUANTITY DISCOUNTS! Indoor, 4 Digit,
Dimensions: 20" L x 8" H x 2.25" D



ED600D-115-4D-N1-KY

6" High, 4 Digit, Variable "Rate Over Time" Counter.
Indoor, 4 Digit, Dimensions: 26" L x 9.4" H x 3.0" D



ED800D-I-115-6D-N1-KY

8" High, 6 Digit, Variable "Rate Over Time" Counter.
Indoor, 6 Digit, Dimensions: 48" L x 11.4" H x 3.0" D



ED1200D-115-4D-N1-KY

12" High, 4 Digit, Variable "Rate Over Time" Counter.
Indoor, 4 Digit, Dimensions: 54" L x 17.6" H x 3.0" D



ED1800D-115-4D-N1

18" High, 4 Digit, Variable "Rate Over Time" Counter.
Indoor, 4 Digit, Dimensions: 69" L x 23.25" H x 3.0" D



ED4150 - Remote Numeric Keypad

Remote Keypad with 10 feet of cable (standard). Other lengths available. Communicate to our numeric displays including serial, timers, rate over time and production scoreboards.

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ED225MPC-4L-N1*

* Scrolling Message Optional

Case Size: 42" x 16" x 2.0"

** Four Lines



PC/PLC Controlled / Photo-Eye
Pushbutton (Optional)



What's in the Box:

- Bright **2.25" High** LED Display with Four Digits / Five Digits on the Bottom Line ("—" Sign)
- 2 Lines of Numerics / Bottom Line is a Scrolling Message Sign
- Top Line Counts Up or is Fixed / 2nd Line Upcounts / 3rd Line Calculates the Difference
- Customer-Designed Lettering (White, Vinyl)
- Mounting Brackets
- Complete Instructions (Download a .pdf)
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support

Operation: The top line is set as a fixed number or advance by a specified value at a specified time (count by one every 10 seconds).

The middle line advances by one for every contact closure. Inputs can be a momentary switch, photo-eye, PLC, etc.

The third line internally calculates the difference. The customer can define lettering, number of digits and lines and operation.

The bottom line is an optional 16 character moving sign that scrolls pre-programmed messages.

Ideal to show employees production status and improve efficiency.

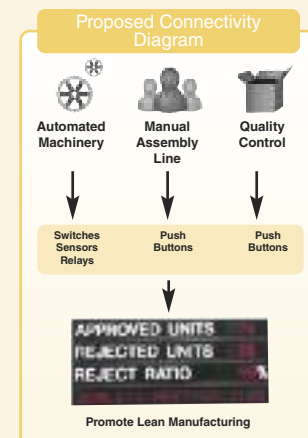
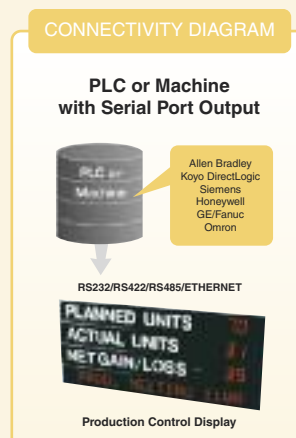
Network Communication: An Ethernet card option is available with these scoreboard displays that will easily add it to an existing network. Each display can be given an individual IP address and then accessed from anywhere in the plant.

IMPROVE

- Efficiency
- Quality
- Cost Savings
- Production
- Employee Motivation

MONITOR

- Production Hours
- Line Speed
- Line-Down Time
- Loading / Unloading Time



ED225MPC-3L/4L-N1

Ideal to:

- Measure OEE (Overall Equipment Effectiveness). This frequently used metric is used to monitor and improve efficiency leading to reduced costs and increased profits.
- Improve communication between employees and management.
- Reach maximum performance and efficiency.
- Increase productivity and boost employee performance.

Applications

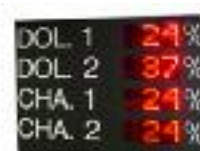
EDI has worked with companies in many industries including **automotive, food processing, packaging, printing and many more**. Any place where displaying real-time information to improve production and efficiency is critical.

Electrical Specifications

Power Source	120 Volts AC / 60 Hz.
Power Consumption	Max. 25 Watts (All LEDS On)
Current Draw	Typical 500 mA per Field
Activation Voltage	5 to 24VDC @ 15 mA source current-active high or low
Supplied On-Board Voltage	12 VDC @ 15 mA isolated power supply
Power Cord Length	6 Foot Business Plug

Physical Specifications

Indoor / Outdoor	Designed to be Installed and Viewed Indoors
Operating Environment	32° to 120° F (0° to 49°C) / 0 to 95% Humidity
Dimensions	42" L x 16.0" H (w/message sign) x 2.25" D
Weight	Approx. 35 Lbs. (w/scrolling sign)
Number of Digits	Four (4) Digits on the Top Two Lines / Five Digits on the Bottom Line For "-" Sign
Character Height	2.25" High Numbers
Viewing Distance	80 - 100 Feet
LED Color / Acrylic Face	Bright Red Standard Green/Amber - Optional: Call For Details
LED Intensity	Bright 10 MCD High-Intensity Digits
U.L. Listed Power Supply	Yes
Enclosure Color / Material	Black Extruded Aluminum
Enclosure NEMA Rating	NEMA1 Rated- Standard NEMA12 Rated - Optional
Mounting Method	Two Mounting Brackets Provided Mounting Method Examples (.pdf)
Limited Warranty	Factory Service One-Year Parts & Labor

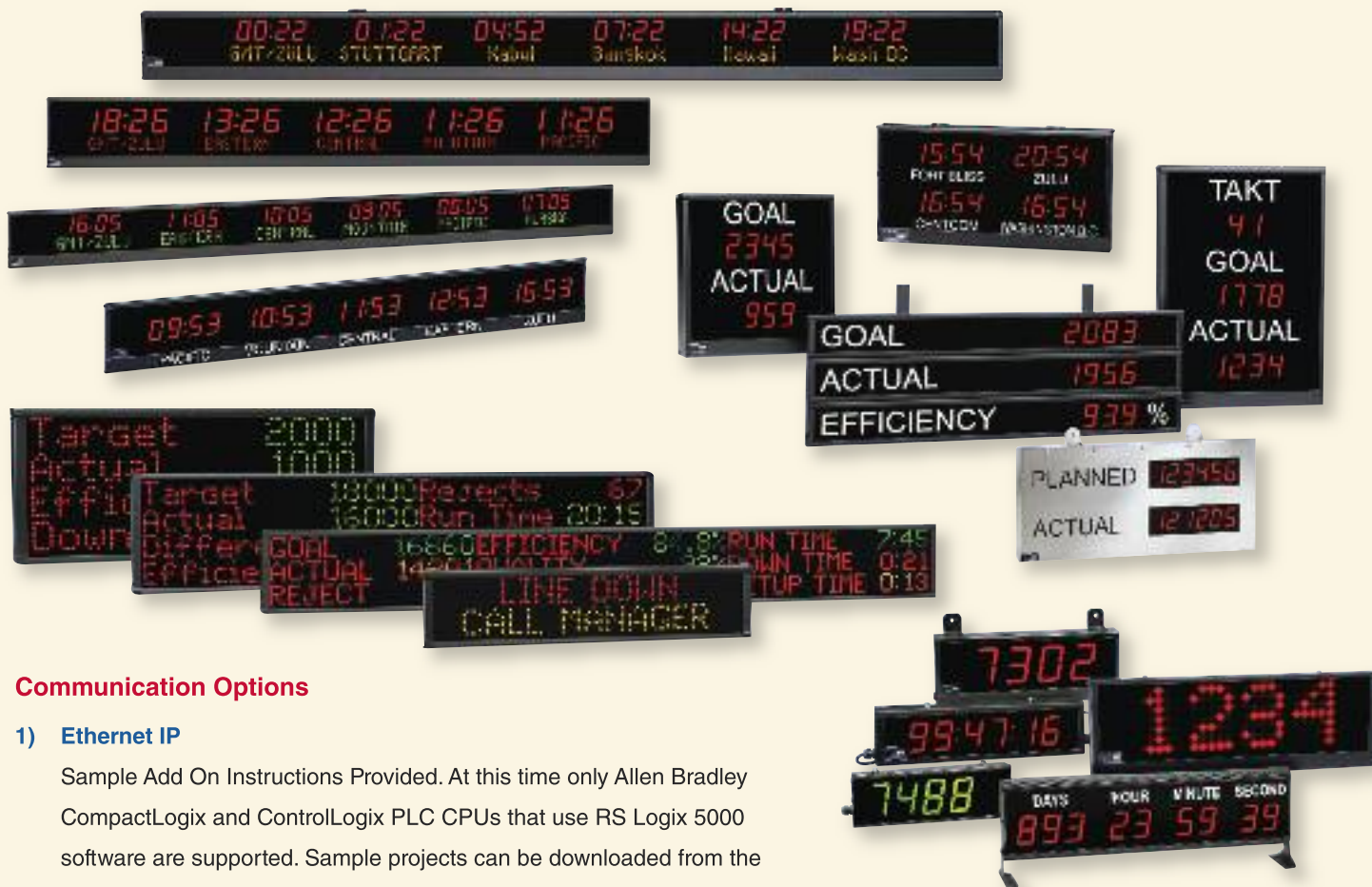


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COMMUNICATION OPTIONS



Communication Options

1) Ethernet IP

Sample Add On Instructions Provided. At this time only Allen Bradley CompactLogix and ControlLogix PLC CPUs that use RS Logix 5000 software are supported. Sample projects can be downloaded from the Electronic Displays, Inc. website. Allen Bradley Micrologix, SLC500 or PLC5 PLC CPUs are **NOT supported** using RS Logix 500 software. Please refer to the ASCII protocol manual for examples. Typically, you will need to connect the serial port from the PLC directly to the LED sign using the DF1 channel 0 port with these types of PLCs.

Add-on instructions provided are used to make ladder logic based programming very easy. These set of AOIs can be imported into your project and reused in ladder flow.

2) Ethernet Interface

All EDI models are available with high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows the marquee to reside on a 10/100 Mbps TCP/IP network (10 Base/100 Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of the EDI marquees with 100 meters being the maximum distance between two nodes. For distances greater than 100 meters repeaters can be used to extend the distance between any two nodes.



COMMUNICATION VIA

- Ethernet IP
- Ethernet Interface
- Serial RS232
- Serial RS485
- Wireless
- ASCII Protocol To Incorporate Into Existing Software

COMMUNICATION OPTIONS

Electronic Displays manufactures **serial input displays** with numeric digits ranging from 2.25" to 18" in character height. Flexibility in design enables these large digital serial displays to be interfaced with many host devices including PCs, PLCs, scales, master clocks, and panel meters that feature a serial communication port. In multi-drop applications, several options of interface and addressing further enhance the flexibility of these large digital serial displays. Furthermore, an optional output relay can be provided for annunciation purposes.

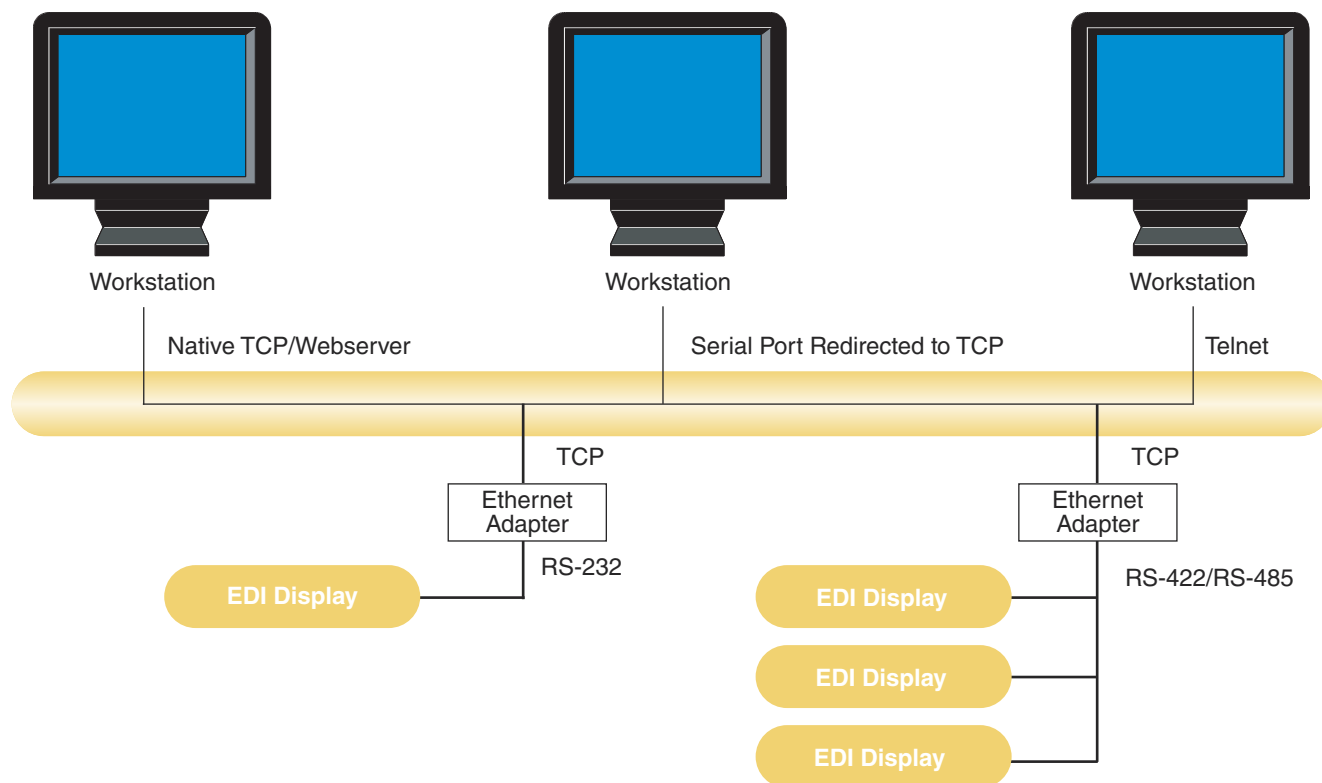
Network Communication – An Ethernet card option is available to add these serial displays to an existing network. Each display will be given an individual IP address and then accessed from anywhere in the plant.

COMMUNICATION

RS232	Serial communication for use when a single display is located less than 50 feet from the controlling display.
RS422/485	Serial communication for distances greater than 50 feet from the controlling display or when multi-dripping displays (more than one display from the same controlling device).
LAN/Ethernet	With this option, displays can act as nodes on a LAN system and receive information via Ethernet. Each display has an IP address.
Modem	With this option, displays include a modem package and can be communicated with over the phone lines.
Wireless	With this option, each display has a wireless receiver that can be controlled from 500 feet away from the transmitter.

PROTOCOL

Proprietary	Protocol used with all Electronic Displays software packages.
ASCII	User written code. Standard protocol using typical 128 ASCII code.



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Electronic Displays Inc. Full Service Systems Integrator



Connect Your HMI to our Large Industrial LED Message Signs

Communication Options

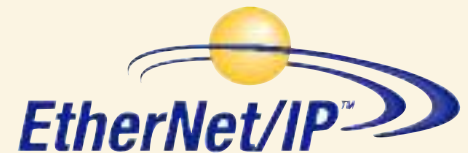
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PLC Interface

AOI's included for
A/B CompactLogix and
ControlLogix Systems

Quick
Simple
AOI's
Easy to Integrate!



LED UP-TIMER

Used to Time Truck Loading Times

"This LED Timer display is acting exactly as we planned. The dock workers have to keep up with our schedule and this display alerts them throughout the docking area."

Logistics Planner

Popular Delivery Company



ED400MQC Production Control Board

Used to Establish Production Schedules

"We installed the new firmware, and it is operating as expected. Please accept a hearty thank you to your management, engineering staff, and yourself for all of your effort. Please note that this will be added to our standard product offering, and we're expecting an order for 14 more of the signs within the next 2 months. We appreciate your support and effort."

Vice-president, Sales

Fortune 500 Company



Digital Safety Scoreboards

Used to Inform Employees and Management that "Safety is Number One!"

"These LED safety displays are perfect for keeping track of our days since the last injury. Our employees notice them as they begin their shifts and our insurance company is reducing our liability insurance! Thanks to the entire EDI staff for their help in picking out the right sign for our needs."

Safety Officer

Fortune 500 Company



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Electronic Displays, Inc. is a full service manufacturer dedicated to providing quality LED displays to the Manufacturing Industry. We offer a complete range of LED communication products.

We have designed this catalog to make your information display selection and purchase as easy as possible. We look forward to serving your informational display needs.

General Policies

Payment Terms	Net 30 days to approved firms.
Shipping Terms	F.O.B. shipping point. A percent handling charge will apply to all orders.
Return Policy	Merchandise that is received damaged or not in accordance with packaging papers should be reported within five days. Do not return items without an RMA number from your EDI Representative. Items incorrectly ordered are subject to a restocking charge.
Warranty	Items sold by EDI are covered by our warranty. All warranty claims are subject to the conditions of our warranty.
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