

ViewMarq Message Displays



Overview

ViewMarq is an LED Message Display utilizing the latest LED and communications technologies for industry. It utilizes both serial and Ethernet communications. The display can be connected to a PLC or any device capable of sending serial ASCII, Modbus RTU, or Modbus TCP communications. It can accept commands over Modbus and Modbus TCP, or serial ASCII.

Applications

The ViewMarq is used to display real time factory floor data or to display PLC triggered messages. The message display is controlled by any of the following:

- ASCII input strings through the RS-232 or RS-485 port
- Modbus RTU messages through the RS-232 or RS-485 port
- Modbus TCP messages through the Ethernet port

Features

- Low power consumption, high-efficiency switch mode power supply
- Wall mount / cabinet top mount and chain mount brackets included
- Free, easy-to-use configuration software package
- The display is fully configurable through the ViewMarq software for ease of use.
- Messages can be sent by an ASCII serial string or through Modbus RTU or Modbus TCP
- Store and trigger up to 200 messages

Compliances

- UL508, file number E157382
- ۰CE
- NEMA 12 Indoor use
- NEMA 4 Indoor use
- RoHS

Choosing the Right Model

One-Line Displays

- 1-1/4", 2" characters
- Models with 12 or 24 characters per line
- Approximate viewing distance
 up to 100 ft

Two-Line Displays

- 1-1/4", 2", 4" characters
- Models with 12 or 24 characters per line
- Approximate viewing distance up to 200 ft

MD4-0112T

- MD4-0124T
- I imes 24 CHARACTER DISPLAY

MD4-0212T



MD4-0224T

Works Great with Domone, P2222

Four-Line Displays

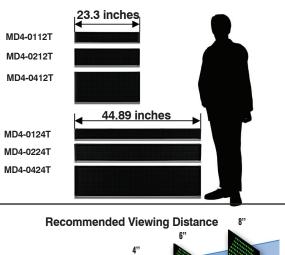
- 1-1/4", 2", 4", 6", 8" characters
- Models with 12 or 24 characters per line
- Approximate viewing distance
 up to 400 ft

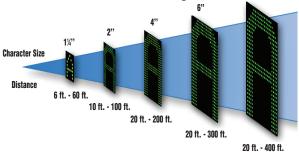
MD4-0412T



Here are the recommended viewing distances based on the character size that can be used:

Character Size	Minimum Recommended Viewing Distance	Maximum Recommended Viewing Distance	Displays with these character sizes (Part Numbers)
1.25 in	6 ft	60 ft	MD4-0112T MD4-0124T MD4-0212T MD4-0224T MD4-0412T MD4-0424T
2 in	10 ft	100 ft	MD4-0112T MD4-0124T MD4-0212T MD4-0224T MD4-0412T MD4-0424T
4 in	20 ft	200 ft	MD4-0212T MD4-0224T MD4-0412T MD4-0424T
6 in	20 ft	300 ft	MD4-0412T MD4-0424T
8 in	20 ft	400 ft	MD4-0412T MD4-0424T





ViewMarq Message Displays Selection Guide

ViewMarq Message Displays			
Part Number		Description	
MD4-0112T		ViewMarq industrial LED message display, 1 line by 12 characters, tri-color, 2 inch maximum character size. Supports red, amber and green characters, embedded string and numeric variables, scrolling (right, left, up and down). (1) RS-232 port, (1) RS-485 port and (1) 10/100 BaseT Ethernet port for configuration and external message control; supports serial ASCII, Modbus RTU, and Modbus TCP protocols. NEMA 4 / NEMA 12 (Indoor only) extruded aluminum housing. UL 508 listed, CE marked. Includes wall mount and chain mount bracket assemblies, 1/2 and 3/4 inch cable glands for input wiring and one seven foot Ethernet patch cable. Requires configuration software (MD-PGMSW) which can be purchased on CD or downloaded for free.	
MD4-0124T		ViewMarq industrial LED message display, 1 line by 24 characters, tri-color, 2 inch maximum character size. Supports red, amber and green characters, embedded string and numeric variables, scrolling (right, left, up and down). (1) RS-232 port, (1) RS-485 port and (1) 10/100 BaseT Ethernet port for configuration and external message control; supports serial ASCII, Modbus RTU, and Modbus TCP protocols. NEMA 4 / NEMA 12 (Indoor only) extruded aluminum housing. UL 508 listed, CE marked. Includes wall mount and chain mount bracket assemblies, 1/2 and 3/4 inch cable glands for input wiring and one seven foot Ethernet patch cable. Requires configuration software (MD-PGMSW) which can be purchased on CD or downloaded for free.	
MD4-0212T		ViewMarq industrial LED message display, 2 line by 12 characters, tri-color, 4.75 inch maxi- mum character size. Supports red, amber and green characters, embedded string and numeric variables, scrolling (right, left, up and down). (1) RS-232 port, (1) RS-485 port and (1) 10/100 BaseT Ethernet port for configuration and external message control; supports serial ASCII, Modbus RTU, and Modbus TCP protocols. NEMA 4 / NEMA 12 (Indoor only) extruded aluminum housing. UL 508 listed, CE marked. Includes wall mount and chain mount bracket assemblies, 1/2 and 3/4 inch cable glands for input wiring and one seven foot Ethernet patch cable. Requires configuration software (MD-PGMSW) which can be purchased on CD or downloaded for free.	
MD4-0224T		ViewMarq industrial LED message display, 2 line by 24 characters, tri-color, 4.75 inch maxi- mum character size. Supports red, amber and green characters, embedded string and numeric variables, scrolling (right, left, up and down). (1) RS-232 port, (1) RS-485 port and (1) 10/100 BaseT Ethernet port for configuration and external message control; supports serial ASCII, Modbus RTU, and Modbus TCP protocols. NEMA 4 / NEMA 12 (Indoor only) extruded aluminum housing. UL 508 listed, CE marked. Includes wall mount and chain mount bracket assemblies, 1/2 and 3/4 inch cable glands for input wiring and one seven foot Ethernet patch cable. Requires configuration software (MD-PGMSW) which can be purchased on CD or downloaded for free.	
MD4-0412T		ViewMarq industrial LED message display, 4 line by 12 characters, tri-color, 9.5 inch maxi- mum character size. Supports red, amber and green characters, embedded string and numeric variables, scrolling (right, left, up and down). (1) RS-232 port, (1) RS-485 port and (1) 10/100 BaseT Ethernet port for configuration and external message control; supports serial ASCII, Modbus RTU, and Modbus TCP protocols. NEMA 4 / NEMA 12 (Indoor only) extruded aluminum housing. UL 508 listed, CE marked. Includes wall mount and chain mount bracket assemblies, 1/2 and 3/4 inch cable glands for input wiring and one seven foot Ethernet patch cable. Requires configuration software (MD-PGMSW) which can be purchased on CD or downloaded for free.	
MD4-0424T		ViewMarq industrial LED message display, 4 line by 24 characters, tri-color, 9.5 inch maximum character size. Supports red, amber and green characters, embedded string and numeric variables, scrolling (right, left, up and down). (1) RS-232 port, (1) RS-485 port and (1) 10/100 BaseT Ethernet port for configuration and external message control; supports serial ASCII, Modbus RTU, and Modbus TCP protocols. NEMA 4 / NEMA 12 (Indoor only) extruded aluminum housing. UL 508 listed, CE marked. Includes wall mount and chain mount bracket assemblies, 1/2 and 3/4 inch cable glands for input wiring and one seven foot Ethernet patch cable. Requires configuration software (MD-PGMSW) which can be purchased on CD or downloaded for free.	

ViewMarq Message Displays Specifications

	ViewMarq 1-Line Message Displays Specif	ications	
Part Number	MD4-0112T	MD4-0124T	
Description	1 Line X 12 Characters	1 Line X 24 Characters	
Display			
• Туре	LED matrix: Tri-color (Green, Red, Amber)		
• LED Life	100,000	D hours	
LED Pitch	0.19 in [5 mm]		
• Center to Center Spacing of each LED	0.27 in [7 mm]		
• Number of Lines	1 (Based on 5 x 7 pi	xel sized characters)	
• Text Height	1.25 in, 2 in (Depends on character set selected)		
Character Set	Printabl	e ASCII	
 Approximate Viewing Distance 	100 ft		
AC Electrical			
• Input Voltage	100-240 VAC (+10% / -15%), 50 / 60 Hz		
Maximum Current	0.5A	0.8A	
 Power Consumption (MAX) 	22W	38W	
 Maximum Inrush Current (Cold and Hot) 	25A	26A	
 Input Fuse Protection (Internal) 	Yes (not user replaceable)		
 Output Protection for Overcurrent, Over Voltage and Over Temperature 	Yes – Self Resetting		
Insulation Resistance	> 10 MOhms	@ 500 VAC	
DC Electrical			
 Input Voltage 	24 VDC (+1	0% / -15%)	
Maximum Current	1A	1.5A	
 Maximum Inrush Current (Cold and Hot) 	ЗА	4.5A	
 Input Fuse Protection (Internal) 	Yes (not user replaceable)		
Reverse Polarity Protection	Yes		
Communication			
Serial Communications	Serial RS-232, RS-485 both ASCII and Modbus, 2400 – 38.4KB		
Ethernet Communications	Modbus TCP, 10/100BaseT		
Dimensions / Weight			
• Enclosure Approximate Weight	4.9 lbs [2.2 kg]	9.0 lbs [4.1 kg]	
Environmental			
Storage Temperature	-30 to +85 °C (-22 to +185 °F)		
Operating Temperature	0 to 60 °C (32 to +140 °F)		
Humidity	5 – 95% non-condensing		
Enclosure Ratings	NEMA 12 indoor use only, NEMA 4 indoor use only		
Vibration	IEC 60068-2-6 (Test Fc)		
• Shock	IEC 60068-2-27 (Test Ea)		
Noise Immunity	EN61131-2:2007		
 Agency Approvals 	UL508 (E157382), NEMA 4, NEMA 12, RoHS, REACH CE (EN61131-2:2007) - Pollution Degree 2, Overvoltage Category II		

ViewMarq Message Displays Specifications

	ViewMarq 2-Line Message Displays Specif	ications	
Part Number	MD4-0212T	MD4-0224T	
Description	2 Line X 12 Characters	2 Line X 24 Characters	
Display			
• Type	LED matrix: Tri-color (Green, Red, Amber)		
• LED Life	100.00		
LED Pitch	0.19 in		
• Center to Center Spacing of each LED	0.27 in		
Number of Lines	2 (Based on 5 x 7 pi	xel sized characters)	
• Text Height	1.25 in, 2 in, 4 in (Depends	s on character set selected)	
Character Set	Printabl	e ASCII	
• Approximate Viewing Distance	200 ft		
AC Electrical			
• Input Voltage	100-240 VAC (+10%	/ -15%), 50 / 60 Hz	
Maximum Current	1A	2A	
 Power Consumption (MAX) 	38W	74W	
Maximum Inrush Current (Cold and Hot)	26A	24A	
 Input Fuse Protection (Internal) 	Yes (not user replaceable)		
Output Protection for Overcurrent, Over Voltage and Over Temperature	Yes – Self Resetting		
 Insulation Resistance 	> 10 MOhms	@ 500 VAC	
DC Electrical			
• Input Voltage	24 VDC (+1	0% / -15%)	
Maximum Current	2A	3.5A	
• Maximum Inrush Current (Cold and Hot)	10.	5A	
 Input Fuse Protection (Internal) 	Yes (not user replaceable)		
 Reverse Polarity Protection 	Yes		
Communication			
Serial Communications	Serial RS-232, RS-485 both ASCII and Modbus, 2400 – 38.4KB		
Ethernet Communications	Modbus TCP, 10/100BaseT		
Dimensions / Weight • Enclosure Approximate	7.3 lbs [3.3 kg]	13.1 lbs [6.0 kg]	
Weight	1.5 Kg	וסטר נטט נעני נעט נעט נעט נעט נעט גען נעט גען	
Environmental			
Storage Temperature	-30 to +85 °C (-22 to +185 °F)		
Operating Temperature	0 to 60 °C (32 to +140 °F)		
Humidity	5 – 95% non-condensing		
Enclosure Ratings	NEMA 12 indoor only, NEMA 4 indoor only		
Vibration	IEC 60068-2-6 (Test Fc)		
Shock	IEC 60068-2-27 (Test Ea)		
Noise Immunity	EN61131-2:2007		
 Agency Approvals 	UL508 (E157382), NEMA 4, NEMA 12, RoHS, REACH CE (EN61131-2:2007) - Pollution Degree 2, Overvoltage Category II		

ViewMarq Message Displays Specifications

	ViewMarq 4-Line Message Displays Specifi	cations	
Part Number	MD4-0412T	MD4-0424T	
Description	4 Line X 12 Characters	4 Line X 24 Characters	
Display	1		
• <i>Type</i>	LED matrix: Tri-color (Green, Red, Amber)		
• LED Life	100,000) hours	
LED Pitch	0.19 in [5 mm]	
• Center to Center Spacing of each LED	0.27 in [7 mm]	
Number of Lines	4 (Based on 5 x 7 pix	kel sized characters)	
• Text Height	1.25 in, 2 in, 4 in, 6 in, 8 in (Dep	pends on character set selected)	
Character Set	Printable	e ASCII	
 Approximate Viewing Distance 	400 ft		
AC Electrical			
• Input Voltage	100-240 VAC (+10%	/ -15%), 50 / 60 Hz	
Maximum Current	2A	2A	
 Power Consumption (MAX) 	74W	123W	
 Maximum Inrush Current (Cold and Hot) 	24A	9.5A	
 Input Fuse Protection (Internal) 	Yes (not user replaceable)		
• Output Protection for Overcurrent, Over Voltage and Over Temperature	Yes – Self Resetting		
Insulation Resistance	> 10 MOhms	@ 500 VAC	
DC Electrical			
• Input Voltage	24 VDC (+10)% / -15%)	
Maximum Current	3.5A	4A	
Maximum Inrush Current (Cold and Hot)	10.5A	12A	
• Input Fuse Protection (Internal)	Yes (not user replaceable)		
Reverse Polarity Protection	Yes		
Communication			
Serial Communications	Serial RS-232, RS-485 both ASCII and Modbus, 2400 – 38.4KB		
Ethernet Communications	Modbus TCP, 10/100BaseT		
Dimensions / Weight • Enclosure Approximate	12.1 lbs [5.5 kg]	22.5 lbs [10.2 kg]	
Weight Environmental	-		
Storage Temperature	-30 to +85 °C (-	-22 to +185 °F)	
Operating Temperature	-30 to +85 °C (-22 to +185 °F) 0 to 60 °C (32 to +140 °F)		
Humidity	5 – 95% non-condensing		
• Enclosure Ratings	NEMA 12 indoor only. NEMA 4 indoor only		
Vibration	IEC 60068-2-6 (Test Fc)		
Shock	IEC 60068-2-27 (Test Fa)		
Noise Immunity	EN61131-2:2007		
	UL508 (E157382), NEMA 4, NEMA 12, RoHS, REACH		
• Agency Approvals	CE (EN61131-2:2007) - Pollution Degree 2, Overvoltage Category II		

ViewMarq Message Display Configuration Software

Free Software!

Part Number: MD-PGMSW

ViewMarq LED message display Windows-based configuration software. Requires Windows XP (Service Pack 3), Vista, Windows 7 (32 and 64-bit) or Windows 8 (32 and 64-bit). Requires serial or Ethernet connection to the ViewMarq display. Available for purchase on CD or can be downloaded for free from AutomationDirect Web site. Ethernet cable ships with display.

Built-in Message Simulator

- Runs the message on your PC as you type.
- Test all of your messages before downloading
- Time savings saves you money!

Simple Message Creation

 Message creation and editing is made simple and fast with inutitive software. Easy-to-find tools help change the character color, add blinking, and insert embedded variables.

Text Editor

Simple and intuitive text message creation, editing and formatting.

Command String Viewer

 Allows you to copy and paste the command string needed for your PLC ladder code.

Message Lists

• Create message lists that can be downloaded to the LED Display and triggered by a PLC or by discrete inputs.

PC Requirements

- Personal Computer with a 333 MHz or higher processor (CPU) clock speed recommended; Intel[®] Pentium/Celeron family, or AMD[®] K6/Athlon/Duron family, or compatible processor recommended
- Keyboard and Mouse or compatible pointing device
- XVGA color video adapter and monitor with at least 1024 x 768 pixels required, 64K color minimum
- 50 MB free hard-disk space
- 512 MB free RAM
- CD-ROM or DVD drive if installing software from the CD
- Serial Port or Ethernet 10/100 Mbps port for configuring LED Display
- Operating System Windows XP SP3, Windows Vista, Windows 7, Windows 8

Download the Software!

The Viewmarq Configuration Software can be downloaded at no charge from the AutomationDirect Web site, or a CD version may be purchased by ordering p/n MD-PGMSW. Help files are included in the software.



CONVICTOR OFFICE

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