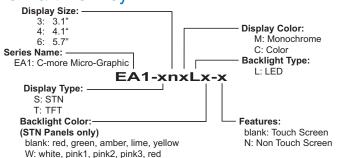
C-more Micro-Graphic Panels Selection Guide

C-more Micro-Graphic Panels						
Part Number		Description	Price			
EA1-S3ML		3.1-inch <i>C-more</i> Micro-Graphic Touch Panel with green and red LED backlights. Supports 5 selectable backlight colors (Green, Red, Amber, Yellow and Lime). STN LCD monochrome, 128 x 64 dot display. Has 5 user-defined function keys with LED indicators. Power is supplied to the panel through the serial communication port connection when used with <i>Direct</i> . OGIC PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial option module) required when connecting to third party PLCs. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-S3ML-N	Non- Touch	3.1-inch <i>C-more</i> Micro-Graphic Non-Touch Panel with green and red LED backlights. Supports 5 selectable backlight colors (Green, Red, Amber, Yellow and Lime). STN LCD monochrome, 128 x 64 dot display. Has 5 user-defined function keys with LED indicators. Power is supplied to the panel through the serial communication port connection when used with <i>Direct</i> . OGIC PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial option module) required when connecting to third party PLCs. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-S3MLW		3.1-inch <i>C-more</i> Micro-Graphic Touch Panel with High Contrast white and red LED backlights. Supports 5 selectable backlight colors (White, Pink1, Pink2, Pink3 and Red). STN LCD monochrome, 128 x 64 dot display. Has 5 user-defined function keys with LED indicators. Power is supplied to the panel through the serial communication port connection when used with <i>Direct</i> . OGIC PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial option module) required when connecting to third party PLCs. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-S3MLW-N	Non- Touch	3.1-inch <i>C-more</i> Micro-Graphic Non-Touch Panel with High Contrast white and red LED backlights. Supports 5 selectable backlight colors (White, Pink1, Pink2, Pink3 and Red). STN LCD monochrome, 128 x 64 dot display. Has 5 user-defined function keys with LED indicators. Power is supplied to the panel through the serial communication port connection when used with <i>Direct</i> . OGIC PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial option module) required when connecting to third party PLCs. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-T4CL		4-inch <i>C-more</i> Micro-Graphic Touch Panel with TFT Color LCD, 320 x 240 dot, 32,768 color display with LED backlight. 5 user-defined function keys with LED indicators. Two built-in ports (USB Type-B port and 15-pin D-sub RS-232/422/485 port). Display supports Portrait and Landscape modes. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-S6ML		5.7-inch <i>C-more</i> Micro-Graphic Touch Panel with STN LCD monochrome, 320x240 dot display. The panel has red and green LED backlights. Supports 5 selectable backlight colors (Red, Green, Amber, Lime, and Yellow). Includes 5 user-defined function keys with LED indicators. 2 built in serial Ports (RS-232 RJ12 port and 15 pin D-sub RS-232/422/485). NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-S6MLW		5.7-inch <i>C-more</i> Micro-Graphic Touch Panel with STN LCD monochrome, 320x240 dot display. The panel has white and red LED backlights. Supports 5 selectable backlight colors (White, Pink1, Pink2, Pink3, and Red). Includes 5 user-defined function keys with LED indicators. 2 built in serial Ports (RS-232 RJ12 port and 15 pin D-sub RS-232/422/485). NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			
EA1-T6CL		5.7-inch <i>C-more</i> Micro-Graphic Touch Panel with TFT Color LCD, 320 x 240 dot, 32,768 color display with LED backlight. 5 user-defined function keys with LED indicators. Two built-in ports (USB Type-B port and 15-pin D-sub RS-232/422/485 port). Display supports Portrait and Landscape modes. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only).	<>			

C-more Micro-Graphic Panel Part No. Key:



Utomation Direct

Company

Systems Overview

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her HMI

Soft Starters

Drives

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Photo Sensors

Limit Switches Encoders

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Product Index

C-more Micro-Graphic Panels Selection Guide

	C-more	Micro-Graphic Panel Accessories	
Part Number		Description	Price
EA-MG-BZ1		8-button keypad bezel for <i>C-more</i> 3" Micro-Graphic panels, with 4 arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad. Designed for easy drop-in of the Micro-Graphic panels.	<>
EA-MG-BZ2	TOTAL STATE OF THE	20-button keypad bezel with numeric keypad for <i>C-more</i> 3" Micro-Graphic panels, with 4 arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad to enter numeric data. Designed for easy drop-in of the Micro-Graphic panels.	<>
EA-MG-P1		Optional DC Power Adapter for <i>C-more</i> 3" Micro-Graphic panels. Required when using third party PLCs, or when using 24 VDC power instead of the 5 VDC supplied from the RJ12 connector of a Productivity Series, CLICK or <i>Direct</i> LOGIC PLC.	<>
EA-MG-SP1		Optional Serial Port with DC Power Adapter for <i>C-more</i> 3" Micro-Graphic panels. Serial port is a D-Sub 15-pin RS-232/RS-422/485 connector. Required when using RS422, RS485 or third party PLCs.	<>
EA-MG-COV-CL		Optional clear screen overlay used to protect C-more 3" Micro-Graphic displays from minor scratches and wear. Package contains 5 clear screen overlays.	<>
EA-4-COV2		Optional clear screen overlay used to protect <i>C-more</i> 4" Micro-Graphic displays from minor scratches and wear. Package contains 3 clear screen overlays.	<>
EA-MG6-BZ2		For Landscape (Horizontal) Mounted Panels. 20-button keypad bezel with numeric keypad for <i>C-more</i> 6" Micro-Graphic panels, 4 arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad to enter numeric data. Designed for easy drop-in of the Micro-Graphic panels.	<>
EA-MG6-BZ2P		For Portrait (Vertical) Mounted Panels. 21-button keypad bezel with numeric keypad for <i>C-more</i> 6" Micro-Graphic panels, 4 arrow adjust keys, and ESCAPE, MENU, CLEAR and (2) ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad to enter numeric data. Designed for easy drop-in of the Micro-Graphic panels.	<>
EA-6-COV2		Optional clear screen overlay used to protect <i>C-more</i> 6" Micro-Graphic displays from minor scratches and wear. Package contains 3 clear screen overlays.	<>

e11-12 1 - 8 0 0 - 6 3 3 - 0 4 0 5 **Operator Interface**

C-more 3" Micro-Graphic STN Non-Touch

Dimensions

Units: inches [mm]

1.357 [34.5]

0.236

RS232

Model EA1-S3ML-N **C-more** 3" Micro-Graphic non-touch panel has a 3.1-inch STN LCD monochrome display and five selectable LED-driven backlight colors: Green, Red, Amber, Yellow and Lime. It features a 128 x 64 dot display, and five user-defined function keys each with a user-defined red LED indicator. The panel can display up to 10 lines by 32 characters of static text and up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). This Micro-Graphic panel can receive power from the serial communications port of most AutomationDirect PLCs. An EA-MG-SP1 Serial Port with DC Power Adapter option module (RS-232/422/485) is required when using other controllers.

Part No. EA1-S3ML-N



c(VL)us (E (SP)

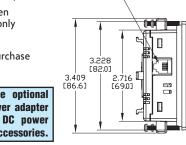
MOUNTING CLIP

(2) places

GASKET

Features

- Free downloadable programming software
- 128 x 64 Dot display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens
- 5-Color LED backlight for longer lifetime; Green, Red, Amber, Yellow and Lime
- 2 optional snap-on keypad bezels
- 768 KB memory
- Panel is powered from PLC comm port when using select AutomationDirect PLCs. Use optional DC power adapter and serial port modules if needed for other controllers (RS-232/422/485)
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



R2535

COMM. PORT

C-more Micro-Graphic Panel

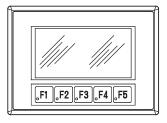
4.488 [114.0]

3.976 [101.0]

[72.0]

TOP VIEW

8888

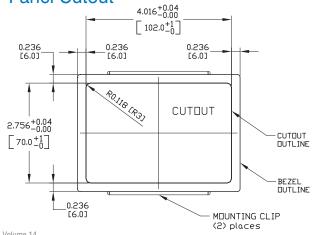


LEFT VIEW FRONT VIEW

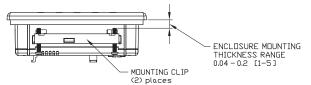


NOTE: Don't forget the optional keypad bezels, DC power adapter and serial port with DC power adapter shown in the Accessories.

Panel Cutout



Panel Thickness





NOTE: The *C-more* 3" Micro-Graphic cutout dimensions are not equivalent to previous *AutomationDirect* text panels. The *C-more* Micro-Graphic panels will not fit in cutouts for DV-1000, EZText or Optimate panels.

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C-more 3" Micro-Graphic STN Non-Touch

Model EA1-S3ML-N C-more 3" Micro-Graphic non-touch panel has a 3.1-inch STN LCD monochrome display and five selectable LED-driven backlight colors including White, Plnk1, Pink2, Pink3 and Red. It features a 128 x 64 dot display, and five user-defined function keys each with a user-defined red LED indicator. The panel can display up to 10 lines by 32 characters of static text and up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). This Micro-Graphic panel can receive power from the serial communications port of most AutomationDirect PLCs. An EA-MG-SP1 Serial Port with DC Power Adapter option module (RS-232/422/485) is required when using third-party PLCs.

Part No. EA1-S3MLW-N



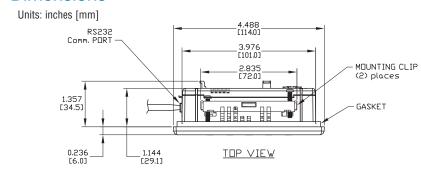
Features

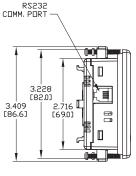
- Free downloadable programming software
- 128 x 64 Dot display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of
- 5-Color LED backlight for longer lifetime; White, Pink1, Pink2, Pink3 and Red
- 2 optional snap-on keypad bezels
- 768 KB memory
- · Panel is powered from PLC comm port when using select AutomationDirect PLCs. Use optional DC power adapter and serial port modules if needed for other controllers (RS-232/422/485)
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



NOTE: Don't forget the optional keypad bezels, DC power adapter and serial port with DC power adapter shown in the Accessories.

Dimensions





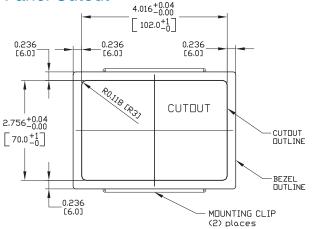
LEFT VIEW

。F2 || F3 || F4

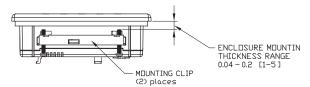
C-more Micro-Graphic Panel

FRONT VIEW

Panel Cutout



Panel Thickness





NOTE: The *C-more* 3" Micro-Graphic cutout dimensions are not equivalent to previous AutomationDirect text panels. The *C-more* Micro-Graphic panels will not fit in cutouts for DV-1000, EZText or Optimate panels.



c(VL)∪s CE (SP



Steppers/ Servos

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Product

C-more 3" Micro-Graphic Specifications

Model		3" STN Micro-Graphic Panel					
Specification	Touch Screen	Non-Touch Screen					
Part Number	EA1-S3ML, EA1-S3MLW	EA1-S3ML-N, EA1-S3MLW-N					
Description	128 x 64 dots LCD display, five user defined keypad function buttons, and five user defined LED's						
Display							
• Туре	3.1" STN monochrome LCD, graphical characters						
• Resolution	128 (W) x (64 (H) dots					
• Color	2 colors (norn	mal / inverse)					
• Viewing Area Size	2.789" (W) x 1.385" (H) [70.8 mm x 35.2 mm]					
Active Area Size	2.670" (W) x 1.259" (H) [67.8 mm x 32.0 mm]					
• Contrast	Adjusted from the panel's buil	t-in configuration setup menu					
• Viewing Angle	3, 9 o'clock axis 6 o'clock axis 12 o'clock axis	-> 45 degrees					
Backlight							
• <i>Type</i>	LE	ED					
• Color	5 user defined colors: EA1-S3ML, EA1-S3M EA1-S3MLW, EA1-S3	1L-N - Red, Green, Amber, Lime, and Yellow IMLW-N - White, Pink1, Pink2, Pink3 and Red					
• User Replaceable	N	lo					
Touch Screen							
• Type	Analog touch panel	N/A					
• Operation	51 gram force [0.5 N] maximum	N/A					
• Life	Minimum of 1,000,000 cycles	N/A					
Features							
• User Memory	768	KB					
Number of Screens	Up to 999 – limited by	project memory usage					
• Beep (Internal)	Ye	es					
• Keypad Function Buttons	Five user defined function key buttons Minimum of 5						
• Keypad Function Button LEDs	Each function key button includes a red LED that can be user programmed.						
• Serial Communications	Built-in RJ12 serial communications port (RS-232). Optional serial communications port (RS-232, RS-485/422) when using the optional EA-MG-SP1 Serial Port with DC Power Adapter.						
• Expansion Connection	Yes – used with optional Keypad Bezels, EA-MG-BZ1 & BZ2, and EA-MG-P1 DC Power Adapter, and EA-MG-SP1 Serial Port with DC Power Adapter.						
Screen Objects							
• Functional Devices	Push Button, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Scroll Text, Screen Change Push Button, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Realtime Graph, Line Graph, Analog Mete						
• Static Shapes	Lines, Rectangles,	Circles and Frames					
• Displayable Fonts	Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16	5, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts					
	C-more 3" Micro-Graphic panel specifications continue	ed on next page.					





NOTE: Photo includes EA-MG-BZ2

C-more 3" Micro-Graphic Specifications

Model Specification	3" STN Micro-Graphic Panel Touch Screen	3" STN Micro-Graphic Panel Non-Touch Screen				
Part Number	EA1-S3ML, EA1-S3MLW	EA1-S3ML-N, EA1-S3MLW-N				
Electrical						
• Input Voltage Range	5.0 VDC (4.75	5 – 5.25 VDC)				
• Input Power	Supplied through the panel's RJ12 serial communications port con- communication port. Can also be supplied from an external 12-24 VDC or the optional EA-MG-SP1 Ser	power source when using the optional EA-MG-P1 DC Power Adapter,				
• Power Consumption	1.05W (220mA	(@ 4.75 VDC)				
• Recommended Fuse	Type AGC fast acting glass fuse, 25 No fuse required when directly connected	of mA, 250 VAC, ADC p/n AGC-25 to a PLC or PC with recommended cable.				
• Maximum Inrush Current	1 A for	500 µs				
• Acceptable External Power Drop Duration	Maximu	m 1 ms				
Environmental						
• Operating Temperature	0 to 50 °C (32 to 122 °F) Maximum su	rrounding air temperature rating: 50 °C				
• Storage Temperature	−20 to +60 °C ((–4 to +140 °F)				
• Humidity	5–95% RH (no	n-condensing)				
• Environmental Air	For use in Pollution D	Degree 2 Environment				
• Vibration	IEC60068-2-6 (Test Fc), 5-9 Hz: 3.5 mm amplitude, 9-15 10 sweep cycles per axis on each	iO Hz: 1.0G, sweeping, at a rate of 1 octave/min. (±10%), of 3 mutually perpendicular axes				
• Shock	IEC60068-2-27 (Test Ea), 15 G peak, 11 ms du on 3 mutually perpendicula					
• Noise Immunity	NEMA IC RFI, (145 MHz, 440 I Impulse 1000 \	CS3-304 Mhz 10 W @ 10 cm) / @ 1 µs pulse				
• Enclosure	For use on a flat surface of Type 1	I, 4X enclosure (Indoor use only)				
• Agency Approvals	CE (EN61131-2), UL508, CUL Canadian C22.2 N	lo. 142-M95, UL File E157382, CSA File 234884				
Physical						
• Dimensions	4.488" (W) x 3.228" (H) x 1.593" (D)) [114.0 mm x 82.0 mm x 40.5 mm]				
• Enclosure Mounting Thickness Range	0.04" - 0.2"	[1 – 5 mm]				
• Mounting Clip Screw Torque Range	21 – 28 oz-in [0.15 – 0.2 Nm]					
• Depth from bezel rear with options Module	2.295" [5	8.3 mm]				
• Weight	5.82 oz.	(165 g)				



NOTE: The environmental specifications for the panels shown above are also applicable for the *C-more* Micro-Graphic Accessories shown later in this section of the catalog.

Serial - Panel port1 or port2*	Serial - Panel port2 only *
AutomationDirect Productivity Series	Allen-Bradley DF1 Full Duplex
AutomationDirect CLICK	Allen-Bradley DF1 Half Duplex
AutomationDirect K-sequence	Allen-Bradley PLC5 DF1
AutomationDirect DirectNET	Allen-Bradley DH485
AutomationDirect Modbus	GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro
Modicon Modbus RTU	Mitsubishi FX
Entivity Modbus RTU	Mitsubishi Q & QnA
GS Drives	Omron Host Link (C200 Adapter, C500)
SOLO Temperature Controller	Omron FINS Serial (CJ1, CS1)
	Siemens PPI (S7-200 CPU)

For a list of supported protocols and cabling options refer to the 3" *C-more* Micro-Graphic Protocols and cabling chart starting on page 11-24. ulomation Directi

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ervos

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Encoders

Sensors

Pressure Sensors

Pushbuttons/ Lights

Process

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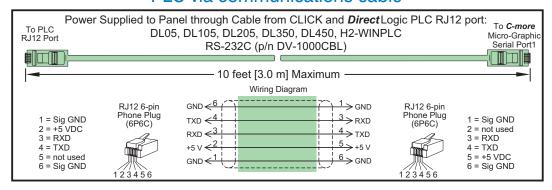
Product Index

C-more 3" Micro-Graphic Power Connection Wiring

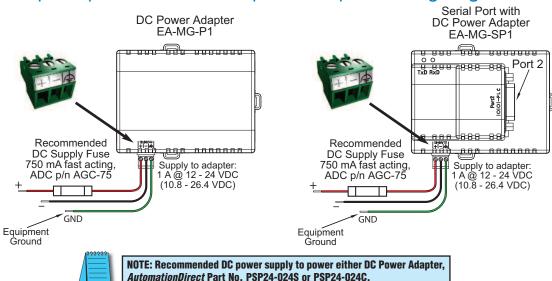
Providing power to the touch panel

- The C-more 3" Micro-Graphic panel is powered during programming from the PC through the USB to RS-232 Programming Cable Assembly, EA-MG-PGM-CBL.
- During operation, the *C-more* Micro-Graphic panel is powered from an *Automation Direct* CLICK, *Direct* LOGIC PLC or Productivity PAC RJ12 serial communications port by using the DV-1000CBL communications cable.
- Or install either the DC Power Adapter, EA-MG-P1, or the Serial Port with DC Power Adapter, EA-MG SP1, to the rear of the panel and supply the adapter from a 12-24 VDC power source.

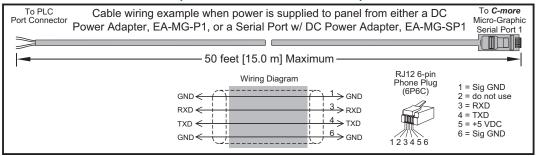
3" Panel powered from AutomationDirect CLICK or **Direct**LOGIC PLC via communications cable



3" panel powered from a DC power adapter - wiring diagram



Maximum communication cable length when 3" panel is powered from an optional DC Power Adapter



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C-more 3" Micro-Graphic PLC Connections

Cabling requirements

The following cables can be used when connecting the **C-more** 3" Micro-Graphic panel's built-in RJ12 serial port (Port1) with the Productivity Series, CLICK, DL05, DL06, DL105, DL205, D3-350 and DL405 CPUs.

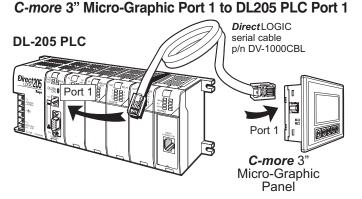
- DV-1000CBL connects to Productivity Series, CLICK, DL05, DL06, DL105, DL205, D3-350 and D4-450 phone jack.
- D4-1000CBL connects to all DL405 CPU 15-pin ports.

A maximum cable length of 10 feet between the **C-more** Micro-Graphic panel and the PLC is recommended when powering the panel from the PLC.

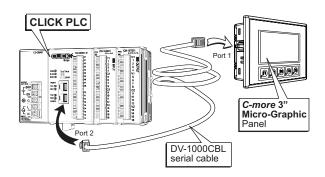
The Serial Port with DC Power Adapter module, EA-MG-SP1, can be used with the C-more 3" Micro-Graphic panels if the application requires the use of RS-422 or RS-485. The serial port on the adapter, designated as port 2, can also be wired for RS-232. The use of the adapter permits greater cable length. See the Communication Protocols & Cabling Charts in this catalog section for details on the selection of various controllers, protocols, and connectivity.

Drivers for your Controller

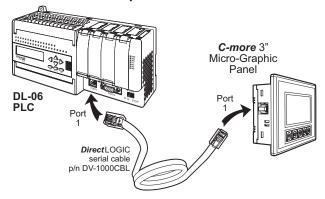
- · AutomationDirect Productivity Series
- · AutomationDirect CLICK (Modbus)
- DirectLOGIC K-sequence, DirectLOGIC DirectNET, DirectLOGIC Modbus (Koyo Addressing)
- Modbus RTU
- Allen Bradley DF1 Full Duplex, Allen Bradley DF1 Half Duplex, Allen Bradley PLC5 DF1, AB DH485
- Omron Host Link (C200 Adapter, C500)
 Omron FINS serial (CJ1, CS1)
- GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)
- Mitsubishi Melsec FX
- Siemens PPI
- Entivity Modbus RTU
- GS Drives
- SOLO Temperature Controllers
- · Mitsubishi Q/QnA



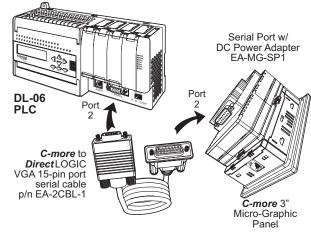
C-more 3" Micro-Graphic Port 1 to CLICK PLC Port 2



C-more 3" Micro-Graphic Port 1 to DL06 PLC Port 1



C-more 3" Micro-Graphic Port 2 to DL06 PLC Port 2



tomation Direct

Company

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Soft Starters

Motors & Gearbox

Steppers/ Servos

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Photo Sensors

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Encoders

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Sensors

Pressure

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C-more 3" Micro-Graphic Communication **Protocols & Cabling Chart**

Contoller Compatibility & Connection Chart											
	PLC				C-more Micro-Graphic Panel.						
				Panel to PLC Cabling Components Required for Specific Port and Protocol being used.							
Family	СРИ	Port & Type	Powered with 5 V	PLC Port Powered Powered with 5 VDC from the con- nected PLC's comm. port.		DC Power Adapter Powered from an external 24 VDC source using the DC Power Adapter, EA-MG-P1.		Serial Port with DC Power Adapter Powered from an external 24 VDC source using the Serial Port with DC Power Adapter, EA-MG-SP1.			
		.,,,,	Using panel's	RJ12 port 1	Using panel	s RJ12 port 1	Using panel's	s RJ12 port 1	Using adapter's serial Port 2 15-pin D-sub - female		
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	
01101	all versions	Port 1 RJ12 - 6 pin Port 2	Automation	DV-1000CBL RS-232	Automation	DV-1000CBL RS-232	Automation	DV-1000CBL RS-232	Automation	EA-2CBL RS-232	
CLICK		RJ12 - 6 pin Port 3	Direct Modbus (CLICK)		Direct Modbus (CLICK)		Direct Modbus (CLICK)		Direct Modbus (CLICK)		
	Analog CPU's	Terminal block - 3-pin		N/A		N/A		N/A		See Note RS-485	
Productivity	all versions	RS-232 RJ12 - 6 pin	Automation Direct	DV-1000CBL	Automation Direct	DV-1000CBL RS-232	Automation Direct	DV-1000CBL RS-232	Automation Direct	DV-1000CBL RS-232	
Series	all versions	RS-485 Port Term block 3-pin	Productivity3000 Serial (P3-550)	N/A	Productivity3000 Serial (P3-550)	N/A	Productivity3000 Serial (P3-550)	N/A	Productivity3000 Serial (P3-550)	See Note RS-485	
Direct LOGIC DL05 (see D0-DCM under DL06)	all versions	Port 1 RJ12 - 6 pin Port 2 RJ12 - 6 pin	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	EA-2CBL RS-232	
under B200)		Port 1 RJ12 - 6 pin		DV-1000CBL RS-232		DV-1000CBL RS-232		DV-1000CBL RS-232		EA-2CBL RS-232	
	all versions	Port 2 DB15HD (female)	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	EA-2CBL-1 RS-232 See Note RS-422	
Direct LOGIC		((3.11.23)							Modbus RTU	See Note RS-485 Modbus only	
DL06		Port 1 RJ12 - 6 pin		DV-1000CBL RS-232		DV-1000CBL RS-232		DV-1000CBL RS-232	V poquenes	EA-2CBL RS-232	
	D0-DCM	Port 2 DB15HD	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD	K-sequence, <i>Direct</i> NET, Modbus RTU	EA-2CBL-1 RS-232 See Note RS-422	
		(female)		RS-232	RS-232		RS-232	Modbus RTU	See Note RS-485 Modbus only		
Direct LOGIC DL105	all versions	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	EA-2CBL RS-232	

Note: See the C-more Micro-Graphic Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. PLC Compatibility & Connection Chart continued on next page.

e11-24 Operator Interface 1 - 8 0 0 - 6 3 3 - 0 4 0 5

C-more 3" Micro-Graphic Communication Protocols & Cabling Chart (cont'd)

			Co	ntroll <u>er Com</u>	patib <u>ility 8</u>	k Connection	n Chart				
	PLC				C-more Micro-Graphic Panel						
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.								
Family	CPU	Port & Type	PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.		Powered from a source using	DC Power Adapter Powered from an external 24 VDC source using the DC Power Adapter, EA-MG-P1.		Serial Port with DC Power Adapter Powered from an external 24 VDC source using the Serial Port with DC Power Adapter, EA-MG-SP1.			
			•	's RJ12 port 1	Using panel	's RJ12 port 1	Using panel	's RJ12 port 1	15-pin D-:	r's serial Port 2 sub - female	
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	
	D2-230	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	EA-2CBL RS-232	
	D2-240	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	EA-2CBL RS-232	
		Port 2 RJ12 - 6 pin	K-sequence, <i>Direct</i> NET	110-232	K-sequence, <i>Direct</i> NET	110-202	K-sequence, <i>Direct</i> NET	110-202	K-sequence, <i>Direct</i> NET	110-202	
		Port 1 RJ12 - 6 pin	V goguenos	DV-1000CBL RS-232	K-seguence,	DV-1000CBL RS-232	K ooguopoo	DV-1000CBL RS-232	K ooguanoo	EA-2CBL RS-232	
	D2-250-1	Port 2 DB15HD (female)	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD RS-232	DirectNET, Modbus RTU	DV-1000CBL + FA-15HD RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL + FA-15HD RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	EA-2CBL-1 RS-232 See Note RS-422	
Direct LOGIC DL205		Port 1 RJ12 - 6 pin	K-sequence, DirectNET, Modbus RTU + F.	DV-1000CBL RS-232		DV-1000CBL RS-232		DV-1000CBL RS-232		EA-2CBL RS-232	
DLEGO	D2-260	Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232 K-sequence, DirectNET, Modbus RTU	DV-1000CBL	K-sequence, <i>Direct</i> NET,	DV 1000CBI	K-sequence, Direct NET, Modbus RTU	EA-2CBL-1 RS-232		
	DZ 200					+ FA-15HD RS-232	+ FA-15HD Modbus RTU	DV-1000CBL + FA-15HD RS-232		See Note RS-422	
								NO-232	Modbus RTU	See Note RS-485 Modbus only	
		Port 1 DB 25 pin (female)	K-sequence,	See Note	K-sequence,	See Note	K-sequence,	See Note	Discoth	EA-4CBL-2 RS-232	
			<i>Direct</i> NET, Modbus RTU	RS-232	Direct NET, Modbus RTU	RS-232	<i>Direct</i> NET, Modbus RTU	RS-232	Direct NET	See Note RS-422	
	WINPLC	Port 1 RJ12 - 6 pin	Modbus RTU	DV-1000CBL RS-232	Modbus RTU	DV-1000CBL RS-232	Modbus RTU	DV-1000CBL RS-232	Modbus RTU	EA-2CBL RS-232	
	D3-330 or	D3-232-DCU DB 25 pin .(female)	N	I/A	Direct NET	See Note RS-232	Direct NET	See Note RS-232	Direct NET	EA-4CBL-2 RS-232	
	D3-340	D3-422-DCU DB 25 pin (female)	N/A		N/A		N/A		Direct NET	See Note RS-422	
	D3-340	Port 1 RJ11 - 4 pin	N	J/A	Direct NET	OP-3CBL-1	Direct NET	OP-3CBL-1	Direct NET	EA-3CBL	
Direct LOGIC	D3-340	Port 2 RJ11 - 4 pin		I/A	<i>Direct</i> NET, Modbus RTU	RS-232	<i>Direct</i> NET, Modbus RTU	RS-232	<i>Direct</i> NET, Modbus RTU	RS-232	
DL305		Port 1 RJ12 - 6 pin	K-sequence, <i>Direct</i> NET	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET	EA-2CBL RS-232	
	D3-350	Port 2 DB 25 pin	N	I/A	K-sequence, <i>Direct</i> NET.	See Note	K-sequence, <i>Direct</i> NET,	See Note	K-sequence, <i>Direct</i> NET,	EA-4CBL-2 RS-232	
		(female)		,,,	Modbus RTU	RS-232	Modbus RTU	RS-232	Modbus RTU	See Note RS-422 EA-4CBL-2	
	D3-DCM D3-350 only	Port 1 DB 25 pin (female)	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-232	<i>Direct</i> NET	RS-232 See Note	
Note On the O		(temale)						agrams that th		RS-422	

Note: See the *C-more* Micro-Graphic Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. PLC Compatibility & Connection Chart continued on next page.

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C-more 3" Micro-Graphic Communication **Protocols & Cabling Chart (cont'd)**

Controller Compatibility & Connection Chart													
	PLC		C-more Micro-Graphic Panel										
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.										
Family	CPU	Port & Type	Powered with	t Powered 5 VDC from the C's comm. port.	Powered from a source using	er Adapter n external 24 VDC g the DC Power EA-MG-P1.		al Port with I m an external 24 VI with DC Power Ada	DC source using apter, EA-MG-SP	the Serial Port 1.			
		,,,,	Using panel	's RJ12 port 1	Using panel	l's RJ12 port 1	Using panel	's RJ12 port 1	Using adapter's serial Port 2 15-pin D-sub - female				
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type			
	D4-430	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232			
	D4 400	Port 1 DB 25 pin (female)	N	J/A	K-sequence, <i>Direct</i> NET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, <i>Direct</i> NET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, <i>Direct</i> NET	EA-4CBL-2 RS-232 See Note RS-422			
	D4-440	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232			
Direct LOGIC	D4-440	Port 1 DB 25 pin (female)	N	N/A	K-sequence, <i>Direct</i> NET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, <i>Direct</i> NET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, <i>Direct</i> NET	EA-4CBL-2 RS-232 See Note RS-422			
DL405	D4-450	5	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232		
			D4-450	D4-450	Port 1 DB 25 pin (female)	N	I/A	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL & FA-CABKIT RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	DV-1000CBL & FA-CABKIT RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	EA-4CBL-2 RS-232 See Note RS-422
			Port 2 RJ12 - 6 pin	K-sequence, <i>Direct</i> NET	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET	DV-1000CBL RS-232	K-sequence, <i>Direct</i> NET	EA-2CBL RS-232		
		Port 3 DB 25 pin (female)	N	V/A	1	V/A	١	V/A	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-422			
D4-DCI	D4-DCM	Port 1 DB 25 pin (female)	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-232	K-sequence, <i>Direct</i> NET, Modbus RTU	See Note RS-232	<i>Direct</i> NET	EA-4CBL-2 RS-232 See Note RS-422			
SOL0	N/A	Data +/- terminals	N	V/A	1	N/A	ľ	V/A	SOLO Temperature Controller	See Note RS-485			
GS Drives	N/A	RS-485 Interface	N	N/A	1	N/A	1	I/A	GS Drives Serial GS Drives TCP/IP (GS-EDRV)	See Note RS-485			

Note: See the C-more Micro-Graphic Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. PLC Compatibility & Connection Chart continued on next page.

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C-more 3" Micro-Graphic Communication **Protocols & Cabling Chart (cont'd)**

Controller Compatibility & Connection Chart														
	PLC		C-more Micro-Graphic Panel											
Family	СРИ	Port & Type	PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port	DC Powered from a source using	Components Requer Adapter In external 24 VDC In the DC Power EA-MG-P1.	sired for Specific Port and Protocol being used. Serial Port with DC Power Adapter Powered from an external 24 VDC source using the Serial Por with DC Power Adapter, EA-MG-SP1.								
		турс	Using panel's RJ12 port 1 Protocol(s) Components 8 Supported Network Type	Using pane Protocol(s)	l's RJ12 port 1 Components & Network Type	Using pane Protocol(s) Supported	l's RJ12 port 1 Components & Network Type	Using adapt 15-pin D- Protocol(s) Supported	er's serial Port 2 -sub - female Components & Network Type					
Allen-Bradley	1000, 1100, 1200, 1500	8-pin mini-din port	Supported Network Type	Supported	Network Type	Зирропеч	Network Type	DF1 Full Duplex DF1 Half Duplex	EA-MLOGIX-CBL RS-232					
MicroLogix	1200, 1500	RJ45 8-pin phone plug						DH485/AIC/AIC+	EA-DH485-CBL RS-232					
Allen-Bradley SLC500	5/03, 5/04, 5/05	9-pin D-sub port						DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CBL RS-232					
	5/01, 5/02, 5/03	RJ45 8-pin phone plug						DH485/AIC/AIC+	EA-DH485-CBL RS-232					
Allen-Bradley ControlLogix	all	9-pin D-sub port						DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CB RS-232					
Allen-Bradley CompactLogix	all	9-pin D-sub port				DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CB RS-232							
Allen-Bradley FlexLogix	all	9-pin D-sub port			DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CB RS-232								
Allen-Bradley	all	25-pin D-sub port						DF1 Full Duplex	EA-PLC5—232-CI RS-232					
PLC5		RJ45 8-pin phone plug						DH485/AIC/AIC+	EA-DH485-CBL RS-232					
	90/30	15-pin D-sub port							EA-90-30-CBL RS-422					
GE	Micro 90, VersaMax Micro	Micro 90, VersaMax	Micro 90, VersaMax	Micro 90, VersaMax	RJ45 Port 1						SNPX	See Note RS-232		
	Micro	15-pin D-sub port Port 2	N/A	1	N/A	N/A		EA-90-30-CBL RS-422						
	Melsec FX Series	25-pin D-sub port					CPU Direct	EA-MITSU-CBL RS-422						
Mitsubishi	FX Series	FX Series	FX Series	LY Selles	LV SELIES	I A SEITES	8-pin mini-din port							EA-MITSU-CBL- RS-422
	Q / QnA	9-pin D-sub port						Q / QnA	See Note RS-232					
	2, 3	6-pin mini-din port							See Note RS-232					
0.	C200 (Adapter), C500	25-pin D-sub port						Host Link	EA-OMRON-CBL RS-232					
Omron	CJ1, CS1, CQM1, CPM1, CPM2, C200	9-pin D-sub port						FINS	See Note RS-232					
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU	varies						Modbus RTU	See Note RS-232					
Siemens	S7-200 CPU	9-pin D-sub port 0 or 1						PPI	See Note RS-485					

Note: See the C-more Micro-Graphic Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at www.automationdirect.com. Available cables with descriptions shown on the next page.

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C-more 3" Micro-Graphic Communication

Cables and Cable Kits

Cable Description	Cable Part Number	Price
Cables for direct connect to panel's	s serial Port1	
(Panel powered from PLC's serial	port.)	
AutomationDirect Productivity Series, AutomationDirect CLICK, <i>Direct</i> LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C).	DV-1000CBL	<>
<i>Direct</i> LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C).	D4-1000CBL	<>
<i>Direct</i> LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C). Use with DV-1000CBL cable.	FA-15HD	<>
Direct LOGIC PLC 15-pin D-sub port, DL405 (RS-232C). Use with DV-1000CBL cable.	FA-CABKIT	<>
<i>Direct</i> LOGIC PLC RJ-11 port, D3-340 (RS-232C).	OP-3CBL-1	<>
Cables used with serial Port2		
AutomationDirect Productivity Series, AutomationDirect CLICK, <i>Direct</i> LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C).	EA-2CBL	<>
Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C).	EA-2CBL-1	<>
<i>Direct</i> LOGIC PLC RJ-11 port, D3-340 (RS-232C).	EA-3CBL	<>
<i>Direct</i> LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C).	EA-4CBL-1	<>
<i>Direct</i> LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCM's (RS-232C).	EA-4CBL-2	<>
Allen-Bradley MicroLogix 1000, 1100, 1200 & 1500 (RS-232C)	EA-MLOGIX-CBL	<>
Allen-Bradley SLC 5-03/04/05, ControlLogix, CompactLogix, FlexLogix DF1 port (RS-232C)	EA-SLC-232-CBL	<>
Allen-Bradley PLC-5 DF1 port (RS-232C)	EA-PLC5-232-CBL	<>
Allen-Bradley MicroLogix, SLC-5-01/02/03, PLC5 DH485 port (RS-232C)	EA-DH485-CBL	<>
GE 90/30 and 90/70, Micro 90, VersaMax Micro (Port 2) 15-pin D-sub port (RS-422A)	EA-90-30-CBL	<>
MITSUBISHI FX Series 25-pin port (RS-422A)	EA-MITSU-CBL	<>
MITSUBISHI FX Series 8-pin mini-DIN (RS-422A)	EA-MITSU-CBL-1	<>
OMRON Host Link C200 Adapter, C500 (RS-232C)	EA-OMRON-CBL	<>





DV-1000CBL



D4-1000CBL



OP-3CBL-1

FA-15HD



FA-CABKIT





EA-2CBL-1

EA-2CBL





EA-4CBL-1

EA-3CBL





EA-MLOGIX-CBL

EA-4CBL-2





EA-PLC5-232-CBL

EA-SLC-232-CBL











EA-DH485-CBL

EA-90-30-CBL

EA-MITSU-CBL

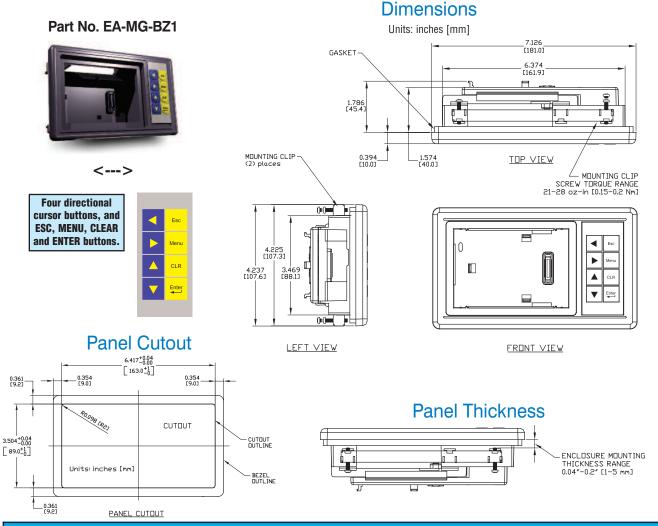
EA-MITSU-CBL-1

EA-OMRON-CBL

8-button Keypad Bezel

The 8-button keypad bezel can be used with both the touch and non-touch *C-more* 3" Micro-Graphic panels. The keypad includes four directional arrow cursor buttons, and one each of an ESCAPE, MENU, CLEAR and ENTER button. The keypad is intended to be used with the numeric entry object (Style 3) to allow changing of a

value, and can also be used to navigate & select objects when using the non-touch panel version. The keypad bezel is designed for easy drop-in of a **C-more** 3" Micro-Graphic panel. No panel configuration required.



8-Button Keypad Bezel Specifications						
Part Number	EA-MG-BZ1					
General						
• C-more Micro-Graphic Panels Supported	EA1-S3ML, EA1-S3MLW, EA1-S3ML-N, EA1-S3MLW-N					
• Connection	Connects with expansion connector on the rear of a <i>C-more</i> 3" Micro-Graphic panel. An expansion connector is also located on the rear of the keypad bezel to allow the EA-MG-P1 DC Power Adapter, or the EA-MG-SP1 Serial Port with DC Power Adapter to be attached.					
 Power Consumption 	None					
• Keypad Button Life	Minimum of 500,000 cycles					
	(2) mounting clips, EA-MG-BZ1-BRK, included.					
• Enclosure Mounting	Note: The <i>C-more</i> 3" Micro-Graphic panel is installed into the keypad bezel using the EA-MG-S3ML-BRK mounting clips that are supplied with the panel.					
Physical						
• Dimensions	7.126" (W) x 4.225" (H) x 2.180" (D) [181.0 mm x 107.3 mm x 55.4 mm]					
• Weight	7.05 oz. [200 g]					
• Environmental	See environmental specifications at the beginning of this catalog section.					

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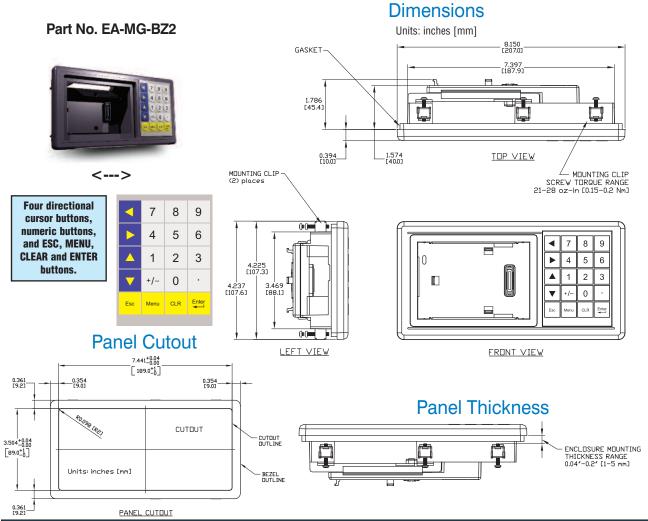
Pneumatics Safety

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20-Button Keypad Bezel

The 20-button keypad bezel can be used with both the touch and non-touch C-more 3" Micro-Graphic panels. The keypad includes four directional arrow cursor buttons, a full numeric keypad, and one each of an ESCAPE, MENU, CLEAR and ENTER button. The keypad is intended to be used with the numeric entry object (Style 3) to allow changing of a value, and can also be used to navigate & select objects when using the non-touch panel version. The numeric buttons can be used to enter a new value. The keypad bezel is designed for easy drop-in of a C-more 3" Micro-Graphic panel. No panel configuration required.



20-Button Keypad Bezel Specifications						
Part Number	EA-MG-BZ2					
General						
• C-more Micro-Graphic Panels Supported	EA1-S3ML, EA1-S3MLW, EA1-S3ML-N, EA1-S3MLW-N					
• Connection	Connects with expansion connector on the rear of a 3" <i>C-more</i> Micro-Graphic panel. An expansion connector is also located on the rear of the keypad bezel to allow the EA-MG-P1 DC Power Adapter, or the EA-MG-SP1 Serial Port with DC Power Adapter to be attached.					
• Power Consumption	None					
• Keypad Button Life	Minimum of 500,000 cycles					
	(6) mounting clips, EA-MG-BZ2-BRK, included.					
• Enclosure Mounting	Note: The <i>C-more</i> 3" Micro-Graphic panel is installed into the keypad bezel using the EA-MG-S3ML-BRK mounting clips that are supplied with the panel.					
Physical						
• Dimensions	8.150" (W) x 4.225" (H) x 2.180" (D) [207.0 mm x 107.3 mm x 55.4 mm]					
• Weight	7.40 oz. [210 g]					
Environmental	See environmental specifications at the beginning of this catalog section.					

e11-30 **Operator Interface** 1 - 8 0 0 - 6 3 3 - 0 4 0 5

DC Power Adapter

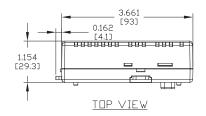
The **C-more** 3" Micro-Graphic panel is designed to use the 5 VDC power that is available from an RJ12 serial communications port found on some Automation Direct PLC's. However, for other devices that do not supply power through their serial commun cations port, the EA-MG-P1 DC power adapter or EA-MG-SP1 serial port with DC power adapter must be used. Both adapters require power from a 12-24 VDC source. The EA-MG-P1 DC Power Adapter for **C-more** 3" Micro-Graphic panels is designed to easily snap on to the rear of a C-more 3" Micro-Graphic panel or the rear of an optional Keypad Bezel being used with a **C-more** 3" Micro-Graphic panel.

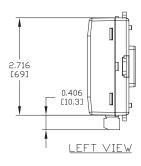
Part No. EA-MG-P1

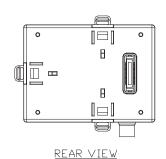


Dimensions

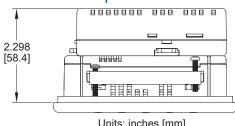
Units: inches [mm]



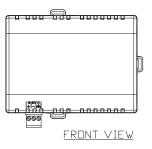




Panel overall depth with adapter installed



Units: inches [mm]



	DC Power Adapter Specifications	
Part Number	EA-MG-P1	
Electrical		
• Input Voltage	12-24 VDC	
• Input Voltage Range	10.8-26.4 VDC	
• Power Consumption	100 mA @ 24 VDC	
• Maximum Power	2.90 Watts	
• Maximum Inrush Current	5 A @ 500 μs with 12 VDC applied, 10 A @ 500 μs with 24 VDC applied	
• Recommended Fuse	Type AGC fast acting glass fuse, 750 mA, 250 VAC, ADC #AGC-75	
• Connector Type	3-pin screw type terminal block	
Physical		
• Dimensions	3.823" (W) x 3.284" (H) x 1.331" (D) [97.1 mm x 83.4 mm x 33.8 mm]	
• Weight	2.8 oz. [80 g]	
Environmental	See environmental specifications at the beginning of this catalog section.	



NOTE: Recommended DC power supply to power either DC Power Adapter. AutomationDirect Part No. PSP24-024S or PSP24-024C.

Company Information

Systems Overview

Programmable

Field I/O

Software

Drives

Soft Starters

Motors & Gearbox

Steppers/

Controls Proximity

Photo

Sensors Limit Switches

Encoders

Current Sensors

Pressure Temperature

Pushbuttons/ Lights

Process

Relays Timers

Terminal Blocks &

Power

Circuit

Enclosures

Tools

Pneumatics Safety

Appendix

Product

Serial Port with DC Power Adapter

The **C-more** 3" Micro-Graphic panel is designed to use the 5 VDC power that is available from an RJ12 serial communications port of some *AutomationDirect* PLC's. However, for other devices that do not supply power through their serial communications port, the EA-MG-P1 DC power adapter or EA-MG-SP1 serial port with DC power adapter must be used. The EA-MG SP1, with D-Sub 15-pin RS-232/RS-422/485 serial port, can be

used to connect to a PLC using RS-232 or RS-422/485. The adapter requires power from a 12-24 VDC source. This optional Serial Port with DC Power Adapter for **C-more** 3" Micro-Graphic panels is designed to easily snap on to the rear of a **C-more** 3" Micro-Graphic panel or the rear of an optional Keypad Bezel being used with a **C-more** 3" Micro-Graphic panel.

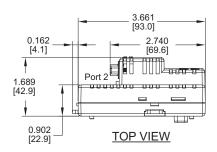
Part No. EA-MG-SP1

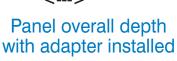


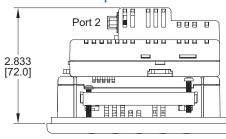
Supports: RS-232, RS-485, & RS-422

Dimensions

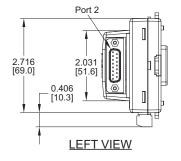
Units: inches [mm]

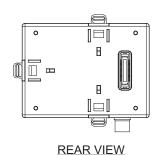






Units: inches [mm]





Port 2



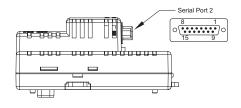
NOTE: Recommended DC power supply to power either DC Power Adapter, *AutomationDirect* Part No. PSP24-024S or PSP24-024C.

Serial Port w/ DC Power Adapter Specifications			
Part Number	EA-MG-SP1		
Serial PLC Interface			
• Interface Standard	RS-232 & RS-485/422		
Adjustable Settings from Software (Pagendant on BLC Brotocol)	Baud rate: 9600, 19200 or 38400 bits/sec Data bits: 7/8 bits Parity: None, Odd/Even		
(Dependent on PLC Protocol)			
• Connector Type	15-pin D-sub connector (female)		
Electrical			
• Input Voltage	12-24 VDC		
 Input Voltage Range 	10.8-26.4 VDC		
 Power Consumption 	100 mA @ 24 VDC		
 Maximum Power 	2.90 Watts		
 Maximum Inrush Current 	5 A @ 500 μs with 12 VDC applied, 10 A @ 500 μs with 24 VDC applied		
• Recommended Fuse	Type AGC fast acting glass fuse, 750 mA, 250 VAC, ADC #AGC-75		
• Connector Type	3-pin screw type terminal block		
Physical			
• Dimensions	3.823" (W) x 3.284" (H) x 1.331" (D) [97.1 mm x 83.4 mm x 33.8 mm]		
• Weight	2 8 07 [80 n]		

See environmental specifications at the beginning of this catalog section.

PLC Serial Communications Port 2

Pi	in	Signal	Pin	Signal	Pin	Signal
1	1	Frame GND	6	LE	11	TXD+ (422/485)
2	2	TXD (232C)	7	CTS (232C)	12	TXD- (422/485)
3	3	RXD (232C)	8	RTS (232C)	13	Term. Resistor
4	ļ	Future	9	RXD+ (422/485)	14	do not use
5	5	Logic GND	10	RXD- (422/485)	15	do not use



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Operator Interface

• Environmental

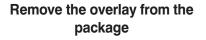
Clear Screen Overlay

Optional clear screen overlay used to protect **C-more** 3" Micro-Graphic displays from minor scratches and wear. Package contains 5 clear screen overlays.

Part No. EA-MG-COV-CL Dimensions Units: inches [mm] 3.126 [79.4] 0.197 [5.0] 0.157 [4.0] 1.748 [44.4] Adhesive

Clear screen overlay installation







Remove the paper backing from the overlay



Align the overlay with the screen and press the adhesive firmly into place



Remove the protective film*



*Note: The overlay cover ships with a thin protective film on the face that should be carefully removed after installation.

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Company Information

Systems Overview

Programmable

Field I/O

Software

C-more &

ther HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Sensors

Pressure Sensors Temperature

Elisois

Pushbuttons/ Lights

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Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

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Product Index

C-more 3" Micro-Graphic Replacement Parts

The optional replacement parts can be used to replace damaged, worn or lost *C-more* 3" Micro-Graphic panel components.

Replacement parts at a glance:

Part Number	Description	Price
EA-MG-S3ML-BRK	Replacement mounting clip for <i>C-more</i> 3" Micro-Graphic panels (pk of 2)	<>
EA-MG-BZ1-BRK	Replacement mounting clip for <i>C-more</i> 3" Micro-Graphic keypad bezel p/n EA-MG-BZ1 (pk of 2)	<>
EA-MG-BZ2-BRK	Replacement mounting clip for <i>C-more</i> Micro-Graphic keypad bezel p/n EA-MG-BZ2 and <i>C-more</i> 6" Micro-Graphic panels and bezels (pk of 8)	<>
EA-MG-DC-CON	Replacement adapter DC power connector for optional p/n EA-MG-P1 and p/n EA-MG-SP1 power adapters used with <i>C-more</i> 3" Micro-Graphic panels and <i>C-more</i> 6" Micro-Graphic panels and bezels (pk of 5)	<>
EA-MG-S3ML-GSK	Replacement mounting gasket for <i>C-more</i> 3" Micro-Graphic panels	<>
EA-MG-BZ1-GSK	Replacement mounting gasket for <i>C-more</i> 3" Micro-Graphic keypad bezel p/n EA-MG-BZ1	<>
EA-MG-BZ2-GSK	Replacement mounting gasket for <i>C-more</i> 3" Micro-Graphic keypad bezel p/n EA-MG-BZ2	<>
EA-MG-S3ML-FKL	Replacement function key label insert for <i>C-more</i> 3"Micro-Graphic panels (pk of 10; 5 blank, 5 F1-F5)	<>

Panel Mounting Clips Part No. EA-MG-S3ML-BRK



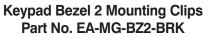
DC Power Connector

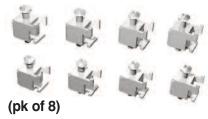
Part No. EA-MG-DC-CON

Keypad Bezel 1 Mounting Clips Part No. EA-MG-BZ1-BRK



3" Panel Gasket Part No. EA-MG-S3ML-GSK





3" Keypad Bezel 1 Gasket Part No. EA-MG-BZ1-GSK



3" Panel Function Keys Label Inserts Part No. EA-MG-S3ML-FKL



3" Keypad Bezel 2 Gasket

Part No. EA-MG-BZ2-GSK

(pk of 10 - 5 blank, 5 F1-F5)

e11-34 1 - 8 0 0 - 6 3 3 - 0 4 0 5 **Operator Interface**

C-more Micro-Graphic Programming Software

FREE software!

C-more Micro-Graphic Programming Software can be downloaded at no charge or a CD version may be purchased by ordering EA-MG-PGMSW. The software requires a USB port on your PC to connect to the C-more Micro-Graphic panel. Software Help Files are included in the download. This software programs all the C-more Micro-Graphic panels (does not program the C-more 6" through 15" touch panels).





Note: This software is used to program C-more Micro-Graphic panels only.

Part Numbers: EA1-S3ML, EA1-S3ML-N, EA1-S3MLW, EA1-S3MLW-N, EA1-T4CL, EA1-S6ML, EA1-S6MLW,



NOTE: Software and Firmware Version 3.0 or later is required with model EA1-T4CL.

Software and Firmware Version 2.50 or later is required with model EA1-T6CL.

Software and Firmware Version 2.0 or later is required with models EA1-S6ML and EA1-S6MLW.

Software and Firmware Version 1.5 or later is required with models EA1-S3MLW and EA1-S3MLW-N.

Available for free download at www.automationdirect.com.

C-more Micro-Graphic Programming Software is a spin-off of its powerful sibling C-more Touch Panel. It offers very high end features designed to reduce your configuration time. Simply drag and drop the objects from the object list (right side of screen) onto the the screen construction area. Then configure your PLC tags and click on the objects you wish to use. Use the built-in simulator to review your work on your PC before ever downloading your project! The time saving benefits of the **C-more** Micro-Graphic configuration software could easily pay for the panel. Check out www.C moreMicro.com to download a free version.

Thumbnail project preview pane

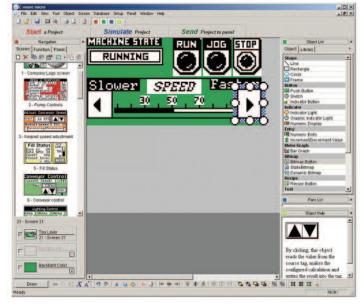
Helps keep track of multi-screen projects.

Built-in project simulator

- Runs your project on your PC
- Test all of your screens before downloading
- Time savings pays for the panel
- Version 2.5 or later Simulate function keys and keypad bezel.

Built-in user object/screen libraries

Save time by re-using your custom objects and screens.



Scrolling object selection window

Lets you find the object you want fast. Just drag and drop it on the screen.

PC requirements

Following are the minimum system requirements for running **C-more** Micro-Graphic Programming Software, EA-MG-PGMSW, on a PC:

- Personal Computer with a 333 MHz or higher processor (CPU) clock speed recommended;
- Keyboard and Mouse or compatible pointing device
- Super VGA color video adapter and monitor with at least 800 x 600 pixels resolution (1024 x 768 pixels recommended) 64K color minimum
- 150 MB free hard-disk space
- 128 MB free RAM (512 MB recommended); 512 MB free RAM (1GB recommended) for Vista
- CD-ROM or DVD drive for installing software from the CD, or internet access to download free programming software
- USB port to use with an EA-MG-PGM-CBL, USB to RS232 Programming Cable Assembly for project transfer from the programming software to the STN, panels, or USB-CBL-AB6 for TFT panels
- Operating System Windows® XP Home / Professional Edition Service Pack 2, Windows® 2000 with Service Pack 4, Windows Vista or Windows 7.

Scrolling help window

Gives you helpful information on each object

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C-more Micro-Graphic Programming Software

C-more	Micro-Gra	phic Panel Objects		
Object	Graphic			
The Line object, just like with drawing tools, allows the user to insert a straight line drawing into a project. When a Line is inserted into a project, a window opens to allow the user to setup all available parameters for the Line object. Some of the uses for Line Objects include but are not limited to adding callouts, pointers, or ndicators.	•	The Analog Meter object is used to display the current value of a Tag Name.	Graphic	
The Rectangle object, just like with drawing tools, allows the user to insert a drawing of a Rectangle as well as other geometric shapes into a project. When this object is inserted into a project, a window opens to allow the user to setup all available parameters for the Rectangle object.		The Bar Meter object is used to monitor up to two assigned Tag Names continuously. This object has various appearances depending upon the relative value of the tags. The Bar Meter can be used to create digital versions of level, current, and flow meters to name a few samples, or gauges that measure speed and other measurable data.		
The Circle object, just like with drawing tools, allows the user to insert a drawing of a Circle or ellipse shape into a project. When this object is inserted into a project, a window opens to allow the user to setup all available parameters for he Circle object.		The Bitmap Button object offers the ability to use a Bitmap graphic to perform the functions of a Button. This allows users to create their own graphics and implement them within the software project. The Bitmap Button object can be used to activate or deactivate components assigned to a Discrete Tag Name. The C-more Micro-Graphic display only supports two colors, black and white.	STOP ON POWER	
The Frame object allows the user to insert a Frame to the project that can be used o Frame other objects. Some of the uses for Frame object include but are not imited to graphically separating objects for different operations that may appear on one screen and emphasizing pushbuttons or other objects that may require more attention by the operator.		The Static Bitmap offers the ability to display a Bitmap graphic on any screen. The Static Bitmap does not change state. Refer to the Dynamic Bitmap Object if you require the graphic object to change state based on a Tag Value in your PLC. The dialog box for a "Static Bitmap" object allows you to "read from disk" and select a graphic file for import. Graphics must be in one of the following formats: .BMP .WMF .JPG .JPEG	Automation Direct	
The Pushbutton object is available from the Button Category of the Object List window. The Pushbutton object is an electronic version of a typical Pushbutton normally found on control panels. The Pushbutton object can be used to activate or deactivate components assigned to a Discrete Tag Name.	0.0	Recipe objects make it easy to make a large number of tag changes with the push of a single button. Create Recipes with up to 99 entries, and multiple sets of values. Then just push a button to load an entire set of values into the group of recipe tags.		
The Switch object is an electronic version of a typical Switch that normally can be jound on control panels. The Switch object can be used to activate or deactivate components assigned to a Discrete Tag Name.		The Dynamic Bitmap object offers the ability to make an object using two different Bitmap graphics that will display one graphic when the Tag is On and a different graphic when the Tag is Off. Use your own bitmap designs or use some of the bitmaps provided with the software that are located in the User Graphic Library.	Auto Auto	
The Indicator Button object is available from the Button Category of the Object List window. The Indicator Button object is an electronic version of a typical Indicator Button normally found on control panels. The Indicator Button is a combination of a Pushbutton and an Indicator Light. The Indicator Button can be used to activate or electivate components assigned to a Discrete Tag Name.		The Static Text object is used to display a Frame with a personalized Message. This Frame and Message can be placed on any screen and any location within the screen.	STATIC TEXT	
The Indicator Light object is an electronic version of a typical Indicator Light normally found on industrial control panels. The Indicator Light can be configured o display the status of the assigned Discrete Tag Name.		The Lookup Text object is used to display a Frame with a personalized Message. This Frame and Message can be placed on any screen and any location within the screen. The object is always displayed like a sign but is configured to display only the message prompted by an assigned Tag Name. Messages are retrieved from a Message Database which is configured by the user with text defined by the user. The Lookup Text Object will scroll text up to 128 characters.	LOOK UP TEXT	
The Graphic Indicator Light object is a more enhanced version of the "Indicator Light Object" that allows the user to choose more detailed graphics to display the status of a tag. This object is an electronic version of a typical Indicator Light normally found on industrial control panels. The Indicator Light can be configured o display the status of the assigned Discrete Tag Name.	™	The Dynamic Text object is used to display text that is retrieved from data stored in a Tag. The Tag Name is assigned to registers in the PLC that contain set character data. The data can be stored in the PLC in ASCII format and may include information such as machine numbers, locations, part numbers, and such. The Message can be configured to be visible (Trigger) when an associated Tag Name is On or Off. This object can be placed on any screen and any location within the screen. The Dynamic Text Object will scroll text up to 40 characters.	DynamicText	
The Numeric Display consists of a frame that displays a real-time numeric value according to the value of data received from an assigned Tag Name. The Numeric Display supports numeric Signed Decimal, Unsigned Decimal, BCD, and Floating Point data types with up to 11 digits, including decimal point. User Defined Alpha Numeric Prefix and Suffix values are also supported.	1234512345	The Scroll Text object is available from the Text Category of the Object List window. The Scroll Text object is an electronic version of a marquee. It is similar to the Static Text Object. If the text in the object does not fit in the window, it will scroll from right to left across the window. The Scroll Text object does not require a Tag Name assignment. The Scroll Text Object has a maximum character limit of 128 characters.	ScrollText	
The Numeric Entry object is used to enter a value from your Panel to a PLC Register. This object, when selected, opens a Numeric Keypad that allows the user o enter a new value that will be written to the assigned Tag Name. The Numeric Entry supports numeric Signed Decimal, Unsigned Decimal, BCD, and Floating Point data types with up to 11 digits, including decimal points. User Defined Alpha Numeric Prefix and Suffix values are also supported.	1234512345	The Screen Change Pushbutton object is available from the Control Category of the Object List window. The Screen Change Pushbutton object is a pushbutton that can be configured to activate another screen in the project. This object may be edited to various colors and sizes. Users can configure the button to activate the Power-Up screen, Forward Screen, Previous Screen, or any one of the project screens.		
The Increment/Decrement Value object is used to add or subtract a value by pressing a button on the Panel. Basically the object uses two Tags, one to read a alue from and another to write a modified value to. The Increment/Decrement falue supports numeric Signed Decimal, Unsigned Decimal, BCD, and Floating boint data types with up to 11 digits, including decimal points. The Increment and lecrement values are also user selectable.		The Screen Selector object is available from the Control Category of the Object List window. This object is an enhanced version of the Screen Change pushbutton in that it offers many more features and defaults with data from screens in the project. This helps to save time by not having to create Screen change buttons for each screen. This object may be edited to various colors and sizes.	Screen Selector	
The Real Time Graph object displays the value stored in up to two PLC tags, over unbistory of up to 24 points each. One point is added at each refresh.	y 100 A 50 1 0 2 4 6 8 10 X Axis	The Adjust Display Contrast object is used to allow the operator to adjust the Panel Display Contrast. The default Display setting often works in most applications, however lighting may vary based on the location of each application. In these cases the operator can use this object to make adjustments. The current display setting value will appear on the top of the button and will change as the arrow keys are pressed. This button can be modified to various sizes.	10	
The Line Graph object displays the values of up to 24 PLC address points. Up to wo address arrays can be displayed. The line is drawn in its entirety at each refresh.	9100 A 50 S 0 2 4 6 8 10	The Function object is used to assign the panels function key buttons to a particular action as well as assigning the control of the LED On/Off status. When a button has been assigned as a shift button, the then F1 through F5 will become F6 through F10. The Function Object buttons will activate when the hardware button is pressed or when the object is pressed on the screen. The object size is restricted so that the keys will line up with the hardware function keys on the panel.	P1 P2 P3 74 F	



Company

Systems Overview

Programmable

Field I/O

Software

-more &

ier Hivii

Drives
Soft
Starters

Motors & Gearbox

Steppers/ Servos

Controls

Sensors

Photo Sensors Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature

uahhuttana/

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

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Tools

Pneumatics

Safety

Appendix

Product Index

C-more Micro-Graphic Programming **Connections**

C-more STN Micro-Graphic Programming Connection

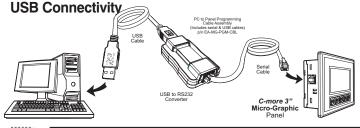
Using the C-more Micro-Graphic Programming Software for project development, STN C-more Micro-Graphic panels can be connected to a PC (personal USB to RS-232 Programming Cable computer) by using EA-MG-PGM-CBL, the USB-to-RS-232 cable assembly.

• Connect the USB programming cable (included) from a USB port type A on the PC to the USB type B port on the converter (included). Next connect the serial programming cable from the converter's RJ12 port to the panel's RJ12 serial port. The panel receives power from the USB port of the PC that it is connected to through the USB to RS-232 converter assembly.

Assembly



Part No. EA-MG-PGM-CBL





NOTE: The TFT panels EA1-T4CL and EA1-T6CL do NOT use the EA-MG-PGM-CBL assembly. The TFT panels use a standard USB A-to-B type cable such as USB-CBL-AB6. See below.

USB to RS-232 Converter Specifications			
Part Number	EA-MG-PGM-CBL		
Hardware			
USB Interface	USB Specification Rev. 1.1 Connector: USB Type B jack to accept USB Type B cable plug		
Serial Interface	RS-232 (EIA-232-E) Connector: RJ12 phone jack 6p to accept RJ12 cable plug		
Baud Rate	115.2 kbps Maximum		
Input Voltage	5 VDC (Supplied thru serial interface cable.)		
Power Consumption	50 mA (Does not include power to panel and/or bezel.)		
Accessory Cables (included)			
USB Cable	USB Type A plug to PC on one end, USB Type B plug to converter on other end, 0.30 m [1 foot] length (* Note)		
Serial Cable	RJ12 phone plug connectors on both ends, 2.0 m [6.56 feet] length (* Note)		
Physical			
Dimensions	2.559" (W) x 1.417" (H) x 0.886" (D) [65.0 mm x 36.0 mm x 22.5 mm]		
Weight	1.06 oz. [30 g]		
Environmental	See Micro-Graphic panel specifications at the beginning of this catalog section.		
* Note: Maximum cable length for either the USB or serial cable should not exceed 2.0 m [6.56 feet] in length.			

C-more TFT Micro-Graphic Programming Connection

The C-more TFT Micro-Graphic panels EA1-T4CL and EA1-T6CL include an integral USB to serial converter. It is programmed via any USB Type A to Type B cable.

When properly installed on your PC, the device driver will be assigned a communication port number and appear in Windows Device Manager as a serial com port.

USB cable options for programming EA1-T4CL and EA1-T6CL

Part Number	Description	Price
USB-CBL-AB3	Standard 3-ft. (0.9 m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<>
USB-CBL-AB6	Standard 6-ft. (1.8 m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<>
USB-CBL-AB10	Standard 10-ft (3 meter) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<>
USB-CBL-AB15	Standard 15-ft. (4.6 m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<>

e11-68 1 - 8 0 0 - 6 3 3 - 0 4 0 5 **Operator Interface**