Quick Start Guide



EA1-T6CL shown in Landscape (Horizontal) mode



CUMMING, GA 30040-5860

EA1-T6CL shown in Portrait (Vertical) mode

NOTE: Software and Firmware Version 2.5 or later is required with model EA1-T6CL. Available for free download at www.automationdirect.com

General Description

ro-Graphic panel has a 5.7-inch TFT LCD color 320 x 240 dot display with an LED backlight. It features five user-defined function keys, each key with a user-defined red LED indicator. The panel displays up to 40 lines by 80 characters of static text and up to 40 lines by 40 characters of dynamic text with embedded variables and phrases mixed with graphics at landscape orientation. Portrait orientation can display 60 characters and 53 lines of static text and 40 lines by 40 characters of dynamic text. EA1-T6CL is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). The C-more 6" Micro-Graphic panels are powered from a 12-24 VDC power supply during operation, or can be powered in low power mode thru the USB port from a PC during programming. Other features include

- USB Type B programming port
- Built in 15-pin serial communications port (RS-232/422/485)
- 2 optional keypad bezels, 20-button landscape and 21-button portrait mount
- Optional replaceable clear screen overlay
- Built in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- Up to 999 screens, limited only by memory usage
- 0 to 50 °C (32 to 122 °F) operating temperature range
- UL, cUL & CE agency approvals (see below for details)
- 2-year warranty from date of purchase

Safety Information



inimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 1-800-633-0405 or 770-844-4200.

This publication is based on information available at the time it was printed. At Automation direct. com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without obligation. This publication may also discuss features that may not be available in certain revisions of the

Before you begin...

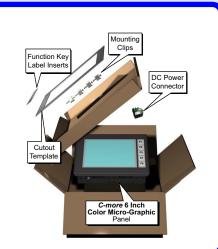
- items required to create a working system:
- **C-more** 6" Micro-Graphic panel
- **C-more** Micro-Graphic Programming Software EA-MG-PGMSW (Downloadable version available from the Automation Direct web site at no charge.)
- $\hbox{\it \textbf{-}C-more} \ {\sf Micro-Graphic} \ {\sf USB} \ {\sf Programming} \ {\sf Cable} \ {\sf such} \ {\sf as} \ {\sf USB-CBL-AB6}, used \ {\sf to} \ {\sf connect} \ {\sf between} \ {\sf a} \ {\sf PC} \ {\sf and} \ {\sf the} \ {\sf the}$ Micro-Graphic panel's built-in serial port. The panel will operate in Low-Power mode when powered by the PC and the screen brightness is diminished.
- Power source An external 12-24 VDC class 2 power source is required for normal High-Power operation. Recommended power supplies are AutomationDirect part numbers PSC-24-015 or PSC-24-030.
- Personal computer to run the *C-more* Micro-Graphic programming software
- Communications Cable (serial) to connect the *C-more* Micro-Graphic panel to your controller.

Unpack and Inspect

- Unpack the C-more Micro-Graphic panel from its shipping carton. Included in the carton are the following:
 - C-more 6" Micro-Graphic panel
 - cutout template
 - mounting clips
 - · function key label insert
 - Quick Start Guide
 - DC Power Connector

included with each product

- · Unpack any accessories that have been ordered, such as: Keypad Bezel, DC Power Supply, programming cable, communications cable, etc.
- Inspect all equipment for completeness. If anything is missing or damaged, immediately call the Automa department @ 1-800-633-0405.



Accessories (sold separately)



EA-MG6-BZ2





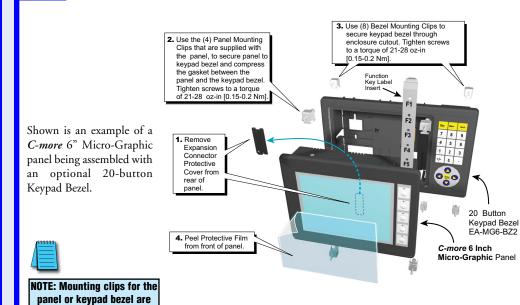
EA-6-COV2

21-Button Keypad Bezel

EA-MG6-BZ2P

Accessory details shown on the reverse side.

Install Optional Hardware Accessories (sold separately)



Programming Software & Programming Cable (sold separately)







USB-CBL-AB6

Agency Approvals

UL/CUL/CSA/CE Certification Numbers					
Name	UL/CUL	UL508	CSA	CE	ISO-9000
C-more Micro-Graphic Panels & Accessories	E157382	Per file # E157382	234884	EN61131-2	~



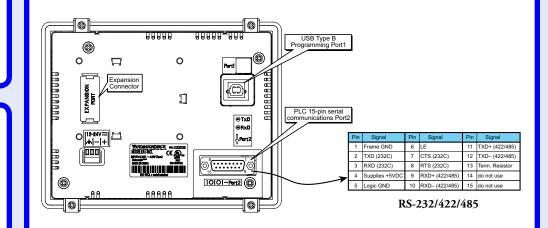




Copyright 2017, Automationdirect.com Incorporated/All Rights Reserved Worldwide

Become Familiar with Available Communication Ports

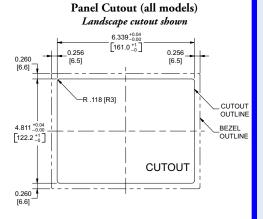
The C-more 6" Color Micro-Graphic panels include a built-in USB Type B port used to communicate with a PC during project development. There is a 15-pin RS-232/RS-422/RS-485 port for communications to



Install C-more 6" Micro-Graphic Panel

The C-more 6" Micro-Graphic panel can be mounted through a cutout in an enclosure by using the template provided with the panel, or using the dimensions shown. The optional keypad bezels also include templates. The enclosure mounting thickness range for the panels and the keypad bezels is 0.04"-0.2" [1-5 mm]. Mounting screw torque is 21-28 oz-in [0.15-0.2 Nm].

Enclosure Thickness



Install the Software and Develop a Project



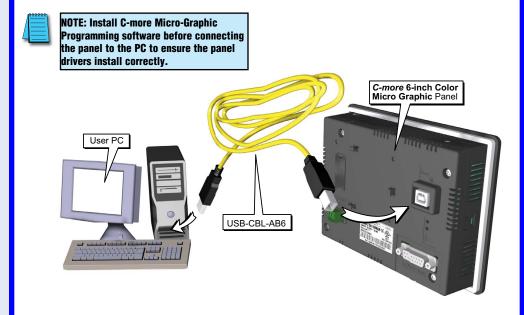
NOTE: Software and Firmware Version 2.5 or later is required with model EA1-T6CL. Available for free download at www.automationdirect.com.

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

- Operating System Windows* XP Home / Professional Edition Service Pack 2, Windows* 2000 with Service Pack 4, Windows® Vista (32 and 64 bit), Windows® 7 (32 and 64 bit), Windows 8 (32 and 64 bit)
- Kevboard 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
- CD-ROM or DVD drive for installing software from the CD, or internet access to download free programming
- USB port for project transfer from software to touch panel

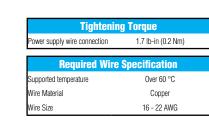
Connect C-more Color Micro-Graphic Panel to Computer

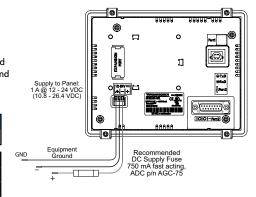
Use a Programming Cable such as USB-CBL-AB6, from a USB port type A on the project development PC to the USB port on the C-more 6" Micro-Graphic panel as shown below.



Provide Power to the *C-more* 6" Color Micro-Graphic Panel

- 1). The panel is powered by a 1 Amp @ 12-24 VDC class 2 power source in normal operation
- 2). The *C-more* 6" Micro-Graphic panel can be powered during programming from the PC through a USB Programming Cable such as USB-CBL-AB6. When powered from the PC, the panel will operate in Low-Power mode and the screen brightness is diminished.

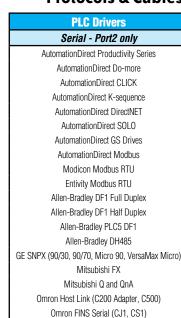




NOTE: Recommended DC power supply to power the *C-more* Micro-Graphic Panel, *AutomationDirec* Part No. PSC-24-015 or PSC-24-030.

Accessing the C-more Micro-Graphic Panel Setup Screens To access the **Setup Menu** of the panel's setup Menu flow Chart screens, press the the BAK [F1] and ENT [F5] function keys simultaneously for three (3) seconds. . Touch / Key Beep om the Setup Menu, information about the panel can be obtained, settings can be adjusted, and panel functions can be tested. . Clear User Memory 5. Reset to Factory Defaul 6. Hourglass Example 3. Test Menu 1. Serial Port – Loop Back Test 2. PLC Enquiry Test 3. Buzzer Test 4. Touch Panel Test

Choose C-more 6" Color Micro-Graphic Panel to PLC **Protocols & Cables**

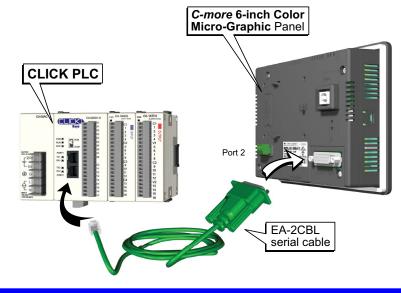




Cable Part No. Cable Descriptio Cables used with Serial Port2 EA-2CBL EA-2CBL-1 Direct LOGIC PLC RJ-11 port, D3-340 EA-3CBL **Direct** LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C). EA-4CBL-1 Direct LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCM EA-4CBL-2 Allen-Bradley MicroLogix 1000, 1100 200 & 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, DH485 port (RS-232C) EA-DH485-CBL GE 90/30, 90/70, Micro 90, Versamax Micro (Port2) EA-90-30-CBL MITSUBISHI FX Series 25-pin port EA-MITSU-CBL ITSUBISHI FX Series 8-pin mini-DIN IS-422A) EA-MITSU-CBL-1 OMRON Host Link (C200 Adapter, C500) EA-OMRON-CBL

10 Connect *C-more* 6" Micro-Graphic Panel to PLC

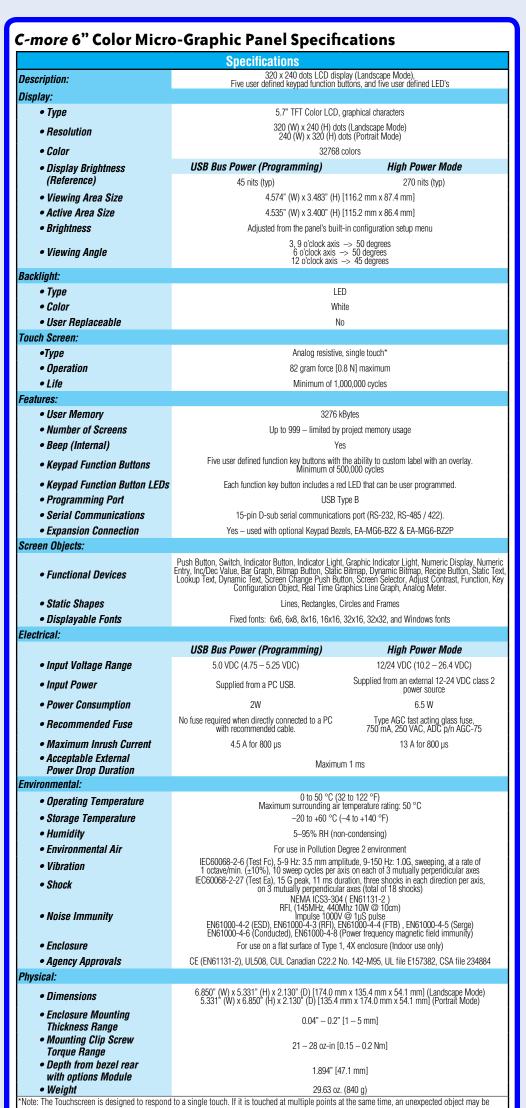
Connect the serial communications cable between the *C-more* Micro-Graphic panel and the PLC. The panel can be connected to the PLC via the panel's built-in 15-pin serial communications port with either RS-232, RS-422 or RS-485 communications.

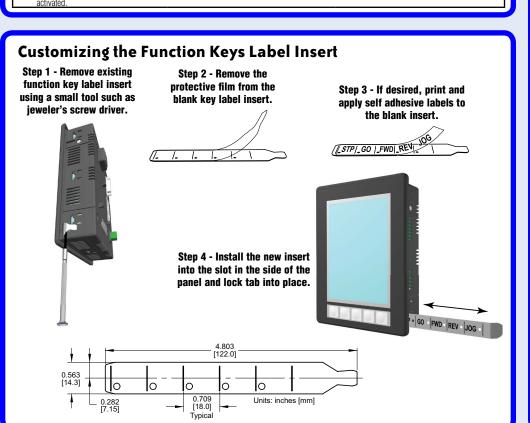


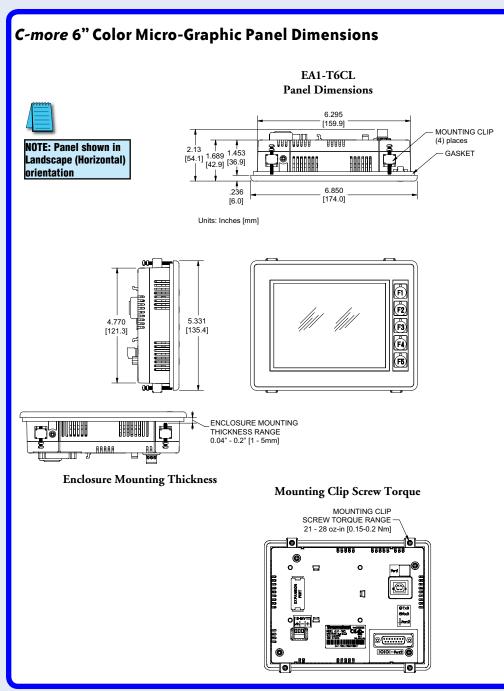
Additional Help and Support

- User Manual can be downloaded from the On-line Documentation area of the AutomationDirect web site or purchased through the AutomationDirect Sales team @ 1-800-633-0405 as part number EA1-MG6CL-M.
- For software programming help, refer to the *C-more* Micro-Graphic Programmin Software on-line embedded help.
- Refer to demos of the product at: www.CmoreMicro.com/software/software_demo.html
- \bullet For additional technical support and questions, call our Technical Support team @ 1-800-633-0405 or 770-844-4200





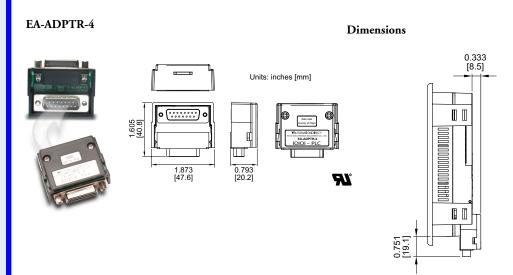




Communication Port Adapters

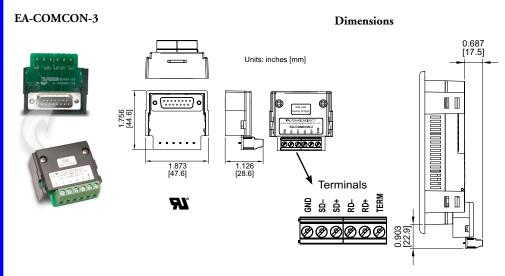
D-SUB 15-pin 90-degree Communication Port Adapter (EA-ADPTR-4)

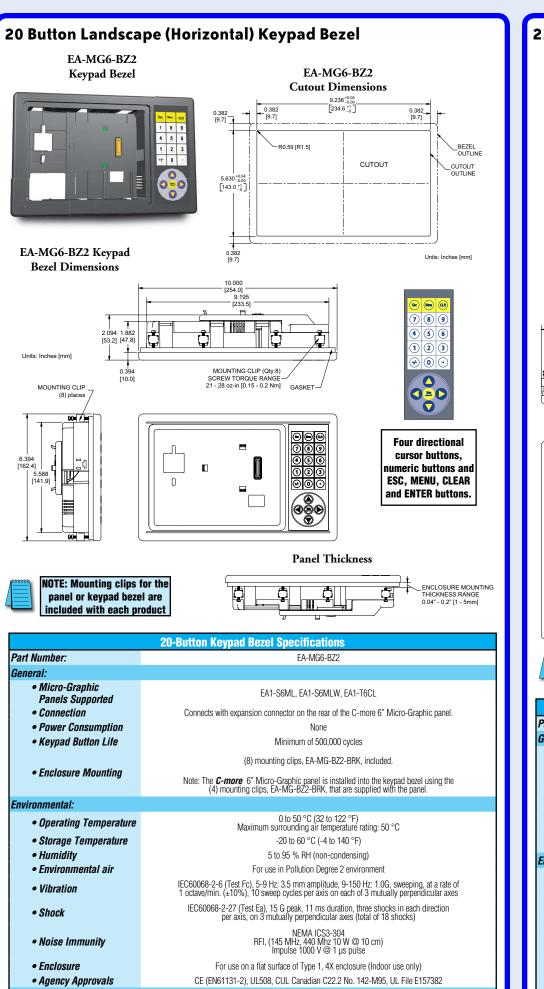
The EA-ADPTR-4 adapter plugs into the 15-pin serial port on the rear of the 6" panel to allow a PLC communication cable to be plugged in at a 90 degree angle to reduce panel depth requirements. 15-pin straight through pin-out. UL Recognized.

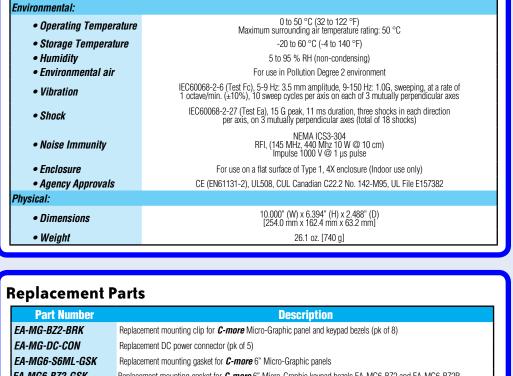


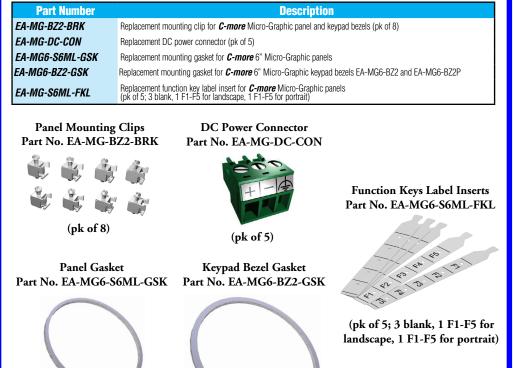
D-SUB 15-pin to Terminal Block Adapter (EA-COMCON-3)

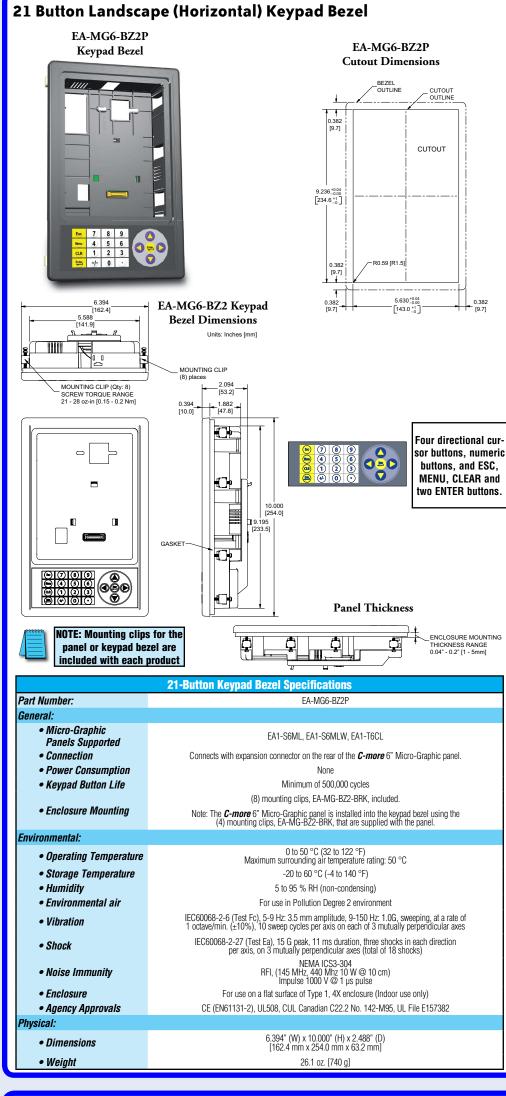
The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of the 6"panel to allow wire terminal connections for an RS-422/RS-485/DH-485 PLC communication cable. UL Recognized.

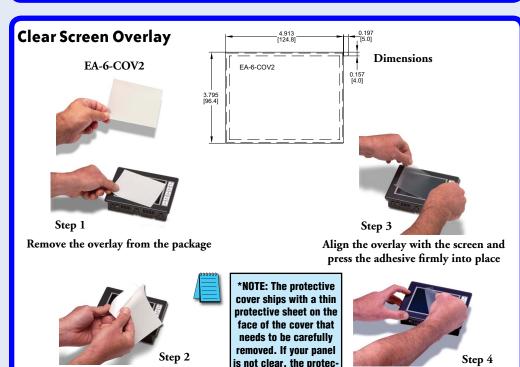












been removed.

tive sheet may not have Remove the protective film*

Remove the paper backing from

the overlay