Quick Start Guide

C-more micro

C-more EA3 Series Micro Panels, Accessories & Replacement Parts

Part Number	Panel Software / Firmware Version Required
EA3-S3ML-RN	4.30 or later
EA3-S3ML-R	4.30 or later
EA3-S3ML	4.20 or later
EA3-T4CL	4.20 or later
EA-ECOM	4.0 or later
EA3-T6CL	3.6 or later

Safety Information

WARNING: To minimize 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 operation. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be compromised.

Clean panel and screen surface only with a clean cloth moistened with water.

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

This document provides simplified installation instructions and specifications. For complete installation and safety information download the EA3-USER-M User Manual at www.automationdirect.com/static/manuals/index.html

1 Unpack and Inspect

Unpack the **C-more** Micro panel from its shipping carton. Included in the carton are the following:

- **C-more** Micro panel
- cutout template
- mounting clips
- gasket
- Quick Start Guide
- DC Power Connector

- Inspect all equipment for completeness. If anything is missing or damaged, immediately call the AutomationDirect returns department @ 1-800-633-0405.
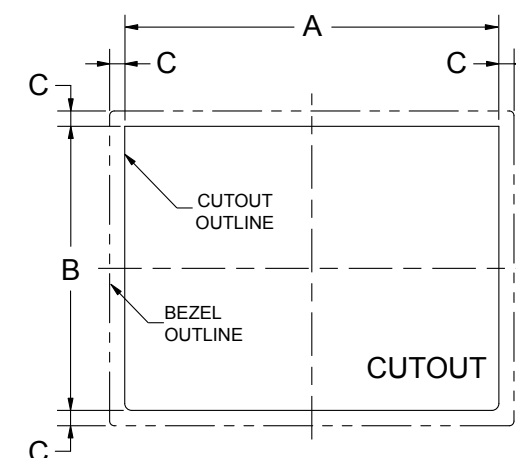

QUICK START GUIDE

C-more EA3 series Panel

Mounting Clips

Gasket [1]

EA-MG-DC-CON [2] DC Power Connector
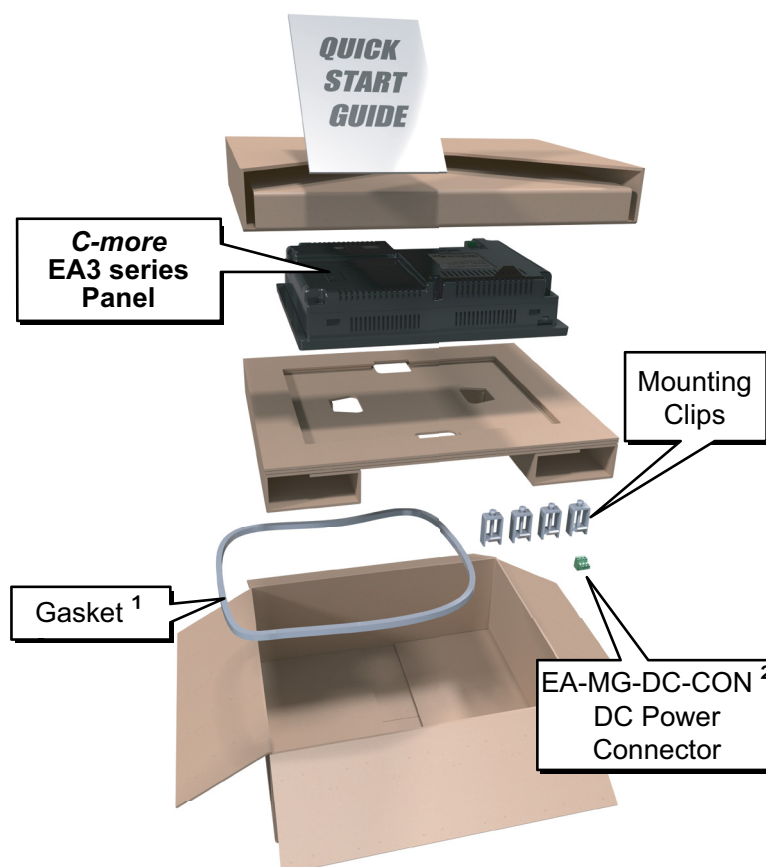
1. Not included with EA3-S3ML-RN.
2. Not included with EA3-S3ML-RN and EA3-S3ML-R.

2 Install C-more Micro Panel

C-more EA3 Series Micro panels can be mounted through a cutout in an enclosure by using the template provided with the panel, or using the dimensions shown. The mounting enclosure material thickness range for the panels is 0.04"–0.2" [1–5 mm].

Metal Mounting Clip

Material Thickness Range
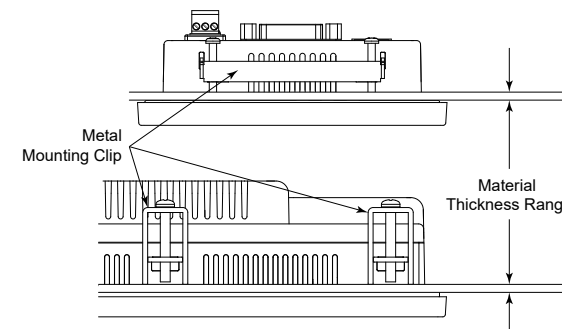
Mounting Screw Tightening Torque	
EA3-S3ML-RN	
EA3-S3ML-R	
EA3-S3ML	21 - 28 oz-in
EA3-T4CL	(0.15 - 0.20 N·m)
EA3-T6CL	

CUTOUT OUTLINE

BEZEL OUTLINE

CUTOUT

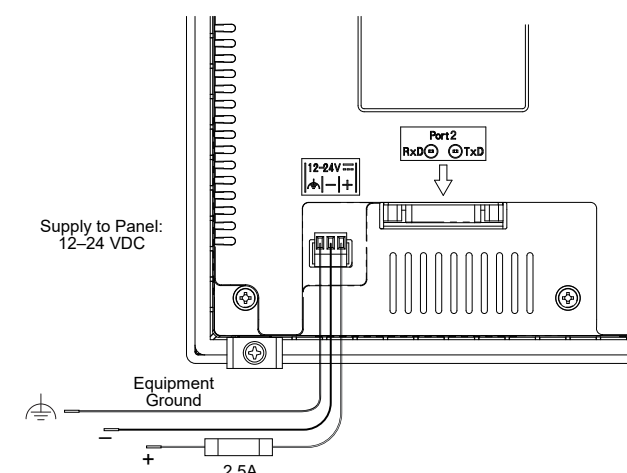| Cutout Dimensions inches [mm]					
	EA3-S3ML-RN	EA3-S3ML-R	EA3-S3ML	EA3-T4CL	EA3-T6CL
A	4.02 [102.0]	4.02 [102.0]	4.02 [102.0]	4.02 [102.0]	6.34 [161.0]
B	2.76 [70.0]	2.76 [70.0]	2.76 [70.0]	2.76 [70.0]	4.81 [122.2]
C	0.24 [6.0]	0.24 [6.0]	0.24 [6.0]	0.37 [9.5]	0.26 [6.6]

3 Provide Power to the C-more Micro Panel

EA3-S3ML-RN
EA3-S3ML-R

EA3-S3ML-RN and EA3-S3ML-R panels have a single RJ12 serial port and are powered during programming from the USB port of a PC with an EA-MG-PGM-CBL cable assembly. During operation, these panels can be powered from most AutomationDirect PLC RJ12 communication ports by using a DV-1000CBL.

EA3-S3ML
EA3-T4CL
EA3-T6CL

Supply to Panel: 12–24 VDC

Equipment Ground

2.5A

To PLC RJ12 Port — Power Supplied to Panel through Cable from AutomationDirect PLC's, RS-232C (p/n DV-1000CBL) — To **C-more** Micro-Graphic Serial Port 1

10 feet [3.0 m] Maximum

Wiring Diagram

RJ12 6-pin Phone Plug (6P6C)

1 = Sig GND
2 = +5 VDC
3 = RXD
4 = TXD
5 = not used
6 = Sig GND

GND	6	1 GND
TXD	4	3 RXD
RXD	3	4 TXD
+5 V	2	5 +5 V
GND	1	6 GND

RJ12 6-pin Phone Plug (6P6C)

1 = Sig GND
2 = not used
3 = RXD
4 = TXD
5 = +5 VDC
6 = Sig GND

1 2 3 4 5 6

Recommended Power Supply		
Part Number	Power	Power Supply
EA3-S3ML	3W	
EA3-T4CL	4W	PSL-24-010
EA3-T6CL	7.5 W	

Required Wire Specification	
Supported temperature	Over 60 °C
Wire Material	Copper
Wire Size	16–22 AWG

Tightening Torque	
Power supply wire connection	1.7 lb-in (0.2 N·m)

Specifications

Part Number:	EA3-S3ML-RN	EA3-S3ML-R	EA3-S3ML	EA3-T4CL	EA3-T6CL
Electrical:					
• Input Power	RJ12 port to any AutomationDirect PLC RJ12 port		RJ12 port to any AutomationDirect PLC RJ12 port (for serial communication only) USB Micro-B port to PC 10.2–26.4 VDC; Class 2 or SELV (Safety Extra-Low Voltage)or Limited Energy Circuit power supply	USB Micro-B port to PC 10.2–26.4 VDC; Class 2 or SELV (Safety Extra-Low Voltage)or Limited Energy Circuit power supply	10.2–26.4 VDC; Class 2 or SELV (Safety Extra-Low Voltage) or Limited Energy Circuit power supply
• Power Consumption	1.05 W (RJ12)		1.05 W (RJ12) 2W (USB) 3W (External Power Supply)	2.5 W (USB) 4W (External Power Supply)	7.5 W
• Maximum Inrush Current	3.5 A for 50µs		20A for 240µs	22A for 240µs	13A for 800µs
• Acceptable External Power Drop Duration	Maximum 1ms				
Environmental:					
• Operating Temperature	0 to 50 °C (32 to 122 °F); Maximum surrounding air temperature rating: 50 °C (122 °F) IEC 60068-2-14 (Test Nb, Thermal Shock)				
• Storage Temperature	−20 to +60 °C (−4 to +140 °F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)				
• Humidity	5–95% RH (non-condensing)				
• Environmental Air	For use in Pollution Degree 2 environment, no corrosive gases permitted				
• Housing Material	ABS Plastic				
• Gasket Material [1]	Silicone Rubber				
• Overlay Sheet Material	PET				
• Vibration	IIEC60068-2-6 (Test Fc)				
• Shock	IEC60068-2-27 (Test Ea)				
• Altitude	Up to 2000m (6562ft)				
• Noise Immunity	(EN61131-2) EN61000-4-2 (ESD), EN61000-4-3 (RFI) EN61000-4-4 (FTB) EN61000-4-5 (Serge) EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity) (Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1µs pulse				
• Enclosure	With EA-MG-S3ML-GSK NEMA 250 type 4/4X indoor use only, UL50 type 4X indoor use only IP-65 indoor use only (Not tested by UL) (When mounted correctly) Without EA-MG-S3ML-GSK NEMA 250 type 1 indoor use only, UL type 1 indoor use only IP-20 indoor use only (Not tested by UL) (When mounted correctly)		NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (not tested by UL) (When mounted correctly)		
• Agency Approvals [2]	CE (EN61131-2), UL61010, CUL Canadian C22.2 UL E157382, RoHS (2011/65/EU)			CE (EN61131-2), UL508, CUL Canadian C22.2 No. 142-M95, UL E157382, RoHS (2011/65/EU)	

Notes: 1. EA3-S3ML-RN ships without a gasket.
2. To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.
3. The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time an unexpected object may be activated.

Agency Approvals

Certifications

Name	UL / cUL	UL508	UL61010	CE	ISO-9000
EA3-S3ML-R, EA3-S3ML-RN, EA3-S3ML, EA3-T4CL	E157382	N/A	E157382	Yes	Yes
EA3-T6CL		E157382	N/A		

Data Sheet: EA3-QSG Rev. J

Gasket and Function Key Label Installation and Removal
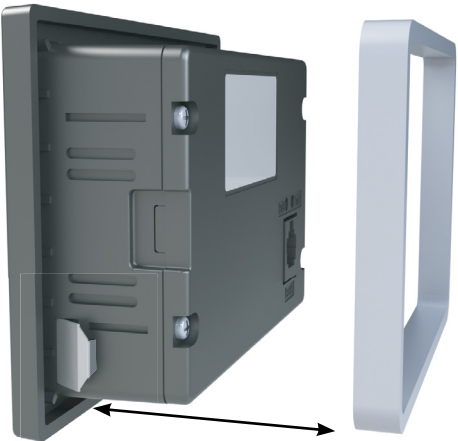
Gasket Installation*

Slide gasket over the rear of the panel and insert in the recess on the rear of the bezel.

Gasket Removal

Grasp the gasket and pull from the recess on the rear of the bezel.

EA3-S3ML-RN ships without a gasket.

Function Key Installation and Removal

Step 1 - Remove gasket. Remove existing function key label insert using a small tool such as jeweler's screw driver.

Step 2 - Grasp and Pull the function key label from the slot to remove. To replace, slide the label into the slot in the side of the panel and lock tab into place.
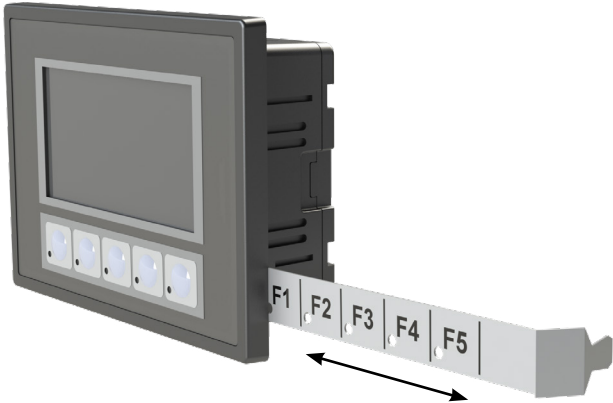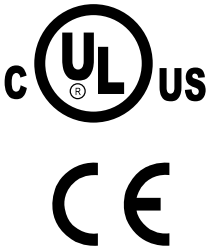
C-more Micro Panel Gaskets

Part Number	Description
EA-MG-S3ML-GSK	Panel mounting gasket, replacement. For use with 3-inch *C-more* Micro Panels.
EA-4-GSK	Panel mounting gasket, replacement. For use with *C-more* Micro EA3-T4CL 4-inch Panels.
EA-MG6-S6ML-GSK	Panel mounting gasket, replacement. For use with 6-inch *C-more* Micro Panels.

To order gaskets, function key labels, other replacement parts and accessories visit www.automationdirect.com

Additional Help and Support

• For product support, specifications, pricing and installation troubleshooting, a Hardware User Manual can be downloaded from the Online Documentation area of the AutomationDirect web site.

• For software programming help, refer to the C-more Micro Programming Software on-line embedded help.

• Refer to online support of the product at: http://c-moremicro.automationdirect.com/support/index.html

• For additional technical support and questions, call our Technical Support team @ 1-800-633-0405 or 770-844-4200.