

Centurion™ Configurable Control Panel

The Centurion Configurable Control Panel (C4) is a hybrid of an annunciator and compressor controller. The C4 combines the monitoring and shut-down features of an annunciator, with auto-start and basic engine controls that help prevent shutdowns.

The panel is PC configurable and USB compatible. No programming experience is required for this panel.

Specifications

Power Input: 10 -32 VDC

Operating Temp: -40° to 185° F (-40° to 85° C)

Configuration: PC-based Centurion Configuration Software

Display Module (Head): Choose from

Standard MV-3-C LCD with graphic display

Standard full-color VGA 6 in. or 10 in. touchscreen

Main I/O Module: C4-1-A: 32 DI, 10 DO, 12 AI, 8 TC, 2 AO, 1 MPU

Expansion Module: MX4: 18 TC (Type J or K), MX5-A: 8 DO, 8 AI, 4 AO, 1 MPU

DI=Digital Input; DO=Digital Output; AI=Analog Input; AO=Analog Output; TC=Thermocouple Input; MPU=Magnetic Pick Up Input; RTD=Resistive Temperature Device

C4-1-A Main I/O Module

- All I/O options individually software selectable. No jumpers required
- 32 optically isolated DC digital inputs: NO or NC, (active high/active low), non-incendive
 - LED indicators
 - Approved for use with general purpose switches in hazardous areas
- 12 analog inputs: 0-24 mA or 0-5 VDC , 10 bit hardware
- Eight thermocouples
 - Open thermocouple
 - Cold junction compensation
- One magnetic pickup input/AC run signal: 30 to 10 kHz, 4.5 VAC rms min, 120 VAC rms max.
- 10 digital outputs:
 - LED indicators
 - 4 relay outputs, form C, dry contacts
 - 4 FET outputs (source)
 - 2 FET outputs (sink)
- Two analog outputs
 - 4-20mA, 16 bit hardware
- 3 Communication Ports:

Port 1 (SERIAL):

- Interface: RS232 or RS485
- Protocol: MODBUS RTU (slave)



Port 2 (SERIAL):

- Interface: RS232 or RS485
- Protocol: MODBUS RTU (slave), proprietary (configuration transfer)

Port 2 (USB): Interface: USB 1.1 compliant port emulating RS232 communications via PC driver

- Protocol/Services: MODBUS RTU (slave), proprietary (configuration transfer)

- Connection: USB Type B connector

- Automatic selection of USB when a signal is detected on the USB Type B connector

Port 3: Interface: CAN bus

- Protocol/Services: Proprietary communications for expansion I/O module support

Warranty — A limited warranty on materials and workmanship is given with this Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm

MV-3-C Display Module with Graphical LCD

- Operating temperature: -40° to 185° F (-40° to 85° C)
- 320 x 240 pixels, LCD display with backlight
- 12-key keypad for user interface for set point entry, alarm acknowledgment, start, stop, reset, etc.
- Communications
 - RS232/RS485-1 (MODBUS master)
 - RS485-2 (reserved)
 - USB 1.1 compliant ports
 - Type A (reserved)
 - Type B (firmware updates)
 - CAN 1/2 (reserved)
- Customizable process screens (up to nine)
 - Line by line
 - Gage
 - Control loop
 - Generic register



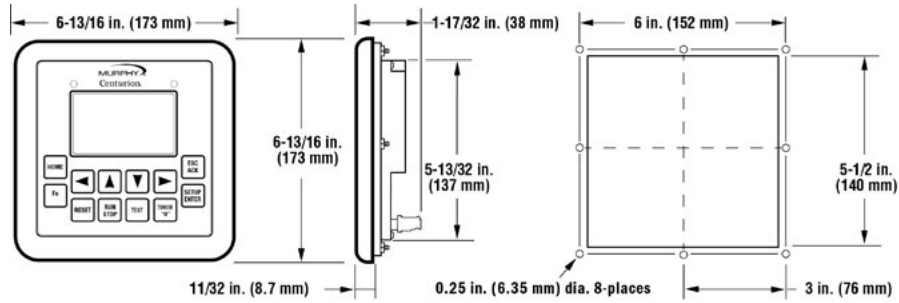
Full-Color VGA Touch Screen

- Operating temperature: 32 to 122° F (0 to 50° C)
- Full-color VGA touch screen (resistive analog)
- 6" standard offering, 10" upgrade
- Data logging - 1 GB memory card
- Data log transfer on the fly
- Communications
 - Serial RS232 - 2
 - Serial RS485 - 1
 - USB 1.1 - 1
 - Ethernet (several protocols supported including, but not limited to MODBUS TCP, TCP/IP Internet Web server)
- Five-button keypad for on screen menus (6")
- Eight-button keypad for on-screen menus (10")
- Standard screen offerings
- Front panel power LED
- 24 VDC powered

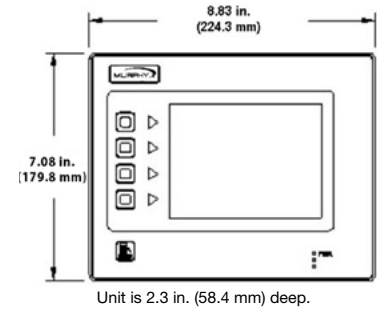


Dimensions

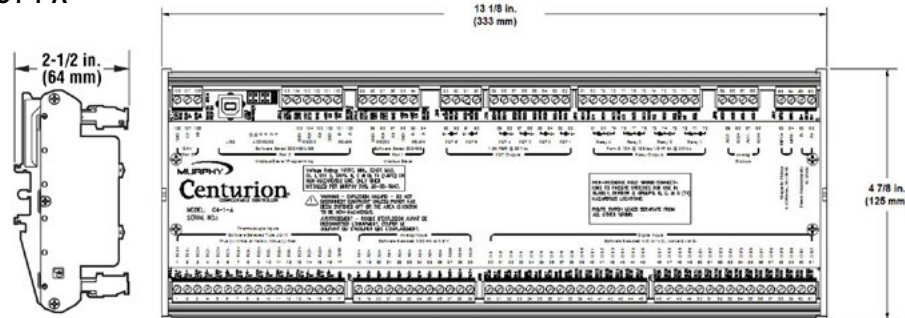
MV-3-C



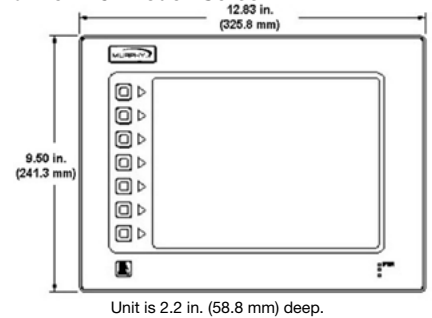
6-Inch VGA Touch Screen



C4-1-A



10-Inch VGA Touch Screen



How to Order

Select a Centurion Configurable Controller
C4-1-A

Specify any combination up to three Expansion I/O Modules
MX4 MX5-A

Specify One Display
MV-3-C LCD

6-inch VGA Touch Screen
10-inch VGA Touch Screen

The minimum system requirements:
C4-1-A Main I/O Module
Display capable of MODBUS communications

The Murphy MV-3-C Display Module is a highly integrated HMI for use with the Centurion system and is recommended for most customers.

Some systems may require additional I/O which is available on the MX4 or MX5-A expansion I/O modules.

Part Number	Model and Description	Notes
Specify Model	C4-1-A, Centurion Controller	
	MV-3-C, Monochrome display	Standard with auto sync
	6-inch VGA touch screen	Requires additional software
	10-inch VGA touch screen	Requires additional software
	MX4 expansion I/O module	
	MX5-A expansion I/O module	
50000774	Ignition noise (choke) filter	
00000504	C4-1-A Plug kit	Printed replacement terminal plugs for main I/O module
00030867	MX4 Plug kit	Printed replacement terminal plugs for MX4 expansion I/O module
00030868	MX5 Plug kit	Printed replacement terminal plugs for MX5 expansion I/O module

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