

Centurion™ PLUS Control Panel

- ▶ The Centurion *PLUS* Control Panel is the latest evolution in Murphy's controller technology. This full-featured controller provides the stability of legacy technology combined with the latest HMI Touchscreen for greater expandability and user interface.

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- ▶ **Features:**
 - Custom application programming
 - Full time data logging
 - Expandable communication capabilities

Centurion *PLUS* controller



General Specifications

Power Input: 10 -32 VDC

Operating Temp. (CPC4-1): -40 to 85°C (-40 to 185°F)

Operating Temp. (Touchscreen): 0 to 50°C (32 to 122°F)

Full-Color VGA Touchscreen

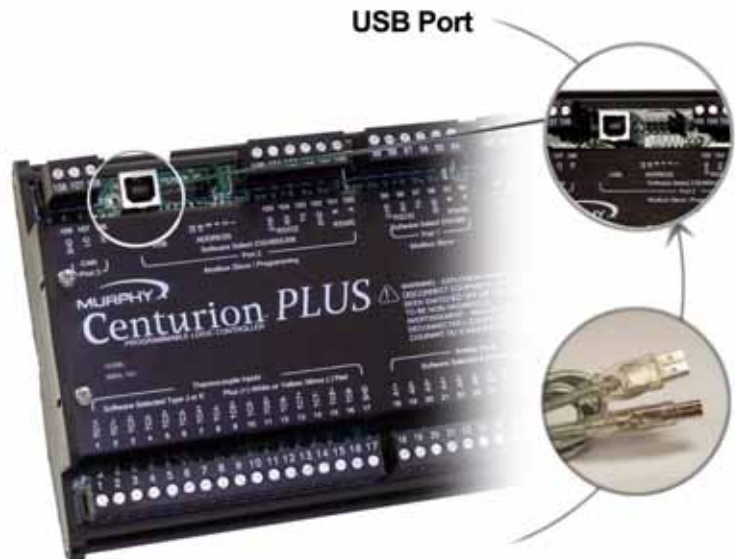
- Full-Color VGA Touchscreen (Resistive Analog)
- 6" Standard offering, 10" upgrade
- Data logging - 1 GB memory card
- Data Log transfer "on the fly"
- Communications
 - Serial RS232 - 2
 - Serial RS485 - 1
 - USB 1.1 - 1
 - Ethernet (several protocols supported including, but not limited to Modbus TCP, TCP/IP Internet Web server)
- 5-Button keypad for on screen menus (6")
- 8-Button keypad for on-screen menus (10")
- Standard Screen offerings
- Front panel Power LED
- 24 VDC Powered

Application Firmware: Programming Proprietary C Language - PC-based upload/download setpoint editor



CPC4-1-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: 4-20mA or 0-5V, 10 bit hardware.
- 8 Thermocouples: Type J or K, 12 bit hardware.
 - Open Thermocouple Detection: Drives channel reading high (max of scale).
 - Cold Junction Compensation.
- 1 Magnetic Pickup Input/AC Run Signal: 30 to 10kHz, 5VAC rms min, 120VAC rms max.
- 10 Digital Outputs:
 - LED indicators
 - Four (4) relay outputs, form C, dry contacts.
 - Four (4) FET outputs (source).
 - Two (2) FET outputs (sink).
- 2 Analog Outputs
 - 4-20mA, 16 bit hardware.
- 3 Communication Ports:
 - Port 1: Interface: RS232 or RS485.
 - Protocol: Modbus RTU (Slave)
 - Port 2 (SERIAL):
 - Interface: RS232 or RS485.
 - Protocol: Modbus RTU (Master or Slave), Proprietary (Firmware Transfer)



Port 2 (USB): Interface: USB 1.1 Compliant Port emulating RS232 communications via PC driver.

- Protocol/Services: Modbus RTU (Slave), Proprietary (Firmware Transfer) Proprietary (Setpoint upload/down)
- Connection: USB Type B connector
- Automatic selection of USB when a signal is detected on the USB Type B connector.

Port 3: Interface: CAN

- Protocol/Services: Proprietary communications for Expansion I/O Module support.

Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product.
A copy of the warranty may be viewed or printed by going to <http://www.fwmurphy.com/warranty>

Expansion I/O Modules

MX4 Expansion I/O Module

- All I/O options individually software selectable. No Jumpers required.
- 18 Thermocouple Inputs: Type J or K, 12 bit hardware.
 - Open Thermocouple Detection: Drives channel reading high (max of scale).
 - Cold Junction Compensation.
- 1 Magnetic Pickup Input: 4.5VAC – 120 VAC, 30 – 10kHz.



MX5 Expansion I/O Module

- 24 Digital Inputs: Optically-isolated DC Digital Inputs, (active high/active low), non-incendive
- 10 Analog Inputs: 4-20mA or 0-5VDC, 10 bit hardware.
- 8 Digital Outputs: Open Collector Transistor, 150mA (sink)
- 1 Magnetic Pickup Input: 4.5VAC – 120 VAC, 30 – 10kHz.



MX5-A Expansion I/O Module (Analog Output option)

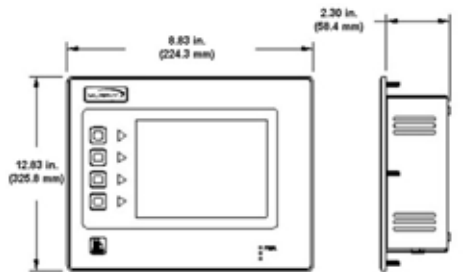
- 24 Digital Inputs: Optically-isolated DC Digital Inputs, (active high/active low), non-incendive
- 10 Analog Inputs: 4-20mA or 0-5VDC, 10 bit hardware.
- 8 Digital Outputs: Open Collector Transistor, 150mA (sink)
- 4 Analog Outputs: 4-20mA, 16 bit hardware.
- 1 Magnetic Pickup Input: 4.5VAC – 120 VAC, 30 – 10kHz.

MX5-D Expansion I/O Module (Digital Output option, 8 additional)

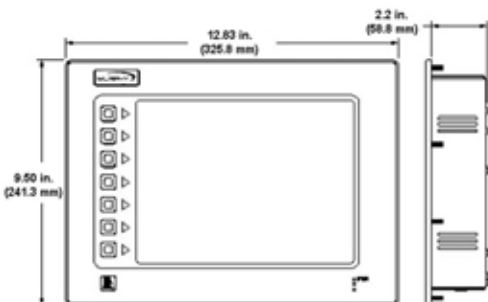
- 24 Digital Inputs: Optically-isolated DC Digital Inputs, (active high/active low), non-incendive
- 10 Analog Inputs: 4-20mA or 0-5VDC, 10 bit hardware.
- 16 Digital Outputs: Open Collector Transistor, 150mA (sink)
- 1 Magnetic Pickup Input: 4.5VAC – 120 VAC, 30 – 10kHz.

Dimensions

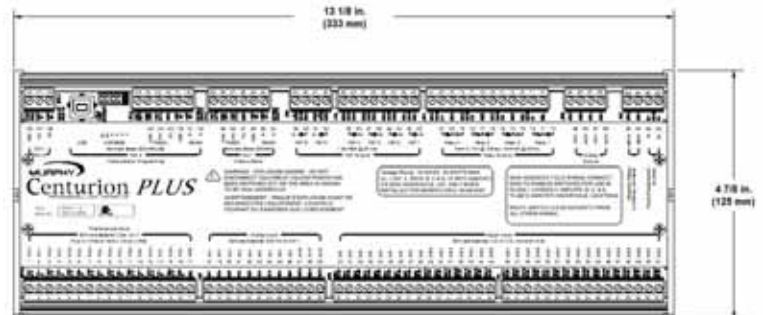
6" Touchscreen



10" Touchscreen



CPC4-1-A



How To Order

Selecting a Centurion *PLUS* Controller Model:

1. Specify **CPC4-1-A** Main I/O Module



2. Specify any combination up to three (3) (optional) Expansion I/O Modules

**MX4
MX5
MX5-A
&/or
MX5-D**



3. Specify one 6-inch or 10-inch (upgrade) VGA Color Touchscreen



The minimum system requirements:

CPC4-1-A Main I/O Module

Full-color VGA Touchscreen (for operation control and interface with Main I/O Module)

Some systems may require the use of our **Inter-change™ Comm Control Module, MX-Series Expansion I/O**. Choose up to three (3) of any combination.

Replacement Parts and Accessories

CPC4-1-A Plug Kit	(00030866)	Printed Replacement Terminal Plugs for Centurion <i>PLUS</i> (CPC4-1-A) Main I/O Module
Choke	(50000774)	Ignition Noise (Choke) Filter
MX4 Plug Kit	(00030867)	Printed Replacement Terminal Plugs for MX4 Expansion I/O Module
MX5 Plug Kit	(00030868)	Printed Replacement Terminal Plugs for MX5 Expansion I/O Module