

# Centurion™ Control Panel

---



The Centurion Configurable Controller (C4) is a hybrid of annunciator and compressor controller.

The C4 combines the monitoring and shutdown features of an annunciator, with auto-start and basic engine controls that help prevent shutdowns.



## Features

---

- PC Configurable / USB Compatible
- No programming experience required

## C4 Series General Specifications

---

- **Display Module (Head):** C4-3: LCD Graphic Display.
- **Main I/O Module:** C4-1-A: 32 DI, 10 DO, 12 AI, 8 TC, 2 AO, 1 MPU.
- **Power Input:** 10 -32 VDC
- **Operating Temp.:** -40 to 85°C (-40 to 185°F)
- **Configuration:** PC-based Centurion Configuration Software.

## C4-3 Display Module with Graphical LCD

---

- Operating temperature: -40 to +85°C (185°F).
- 128x64 pixels, LCD Display with Green Backlight.
- 12-key keypad for user interface for set point entry, alarm acknowledgement, start, stop, reset, etc.
- 2 Serial Ports - Software Configurable
  - Port 1 - Modbus Master RS232 or RS485
  - Port 2 - Modbus Slave RS232, RS485, or USB (future)
- Customizable Process Screens (up to 9)
  - Line by Line
  - Gauge
  - Control Loop
  - Generic Register

## 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: 0-24mA or 0-5VDC , 10 bit hardware.
- 8 Thermocouple
  - Open Thermocouple
  - Cold Junction Compensation.
  - 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: CANBUS
    - Protocol/Services: Proprietary communications for Expansion I/O Module support.
- 1 Magnetic Pickup Input/AC Run Signal: 30 to 10kHz, 4.5VAC 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

**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>