

**PRODUCT INTRODUCTION****COMPLETE GAUGE PANEL*****For J1939 Electronic Engines***

The C3-4500 control panel combines the Controls, Inc. engine control module with J1939 gauges, a key switch and 21-pin connector for a complete, plug and go solution when used with a CI engine harness.

**Engine Control Module**

- Full Digital Engine Display
- Throttle Control
- Trouble Code Reader

**Gauges**

- Tachometer
- Oil Pressure
- Engine Temperature
- Voltmeter

**Key Switch**

- Rugged water tight key switch

**21-Pin Engine Harness Connector**

- Controls, Inc. has engine harnesses and harness adapters for most engine makes and models.

**Features**

- Powder Coated Steel Enclosure
- All Connectors/Components Water Tight
- Manual and Auto Start Versions

**Throttle Control**

- Throttle control via UP & DOWN buttons
- Set min and max engine speeds
- Select standard, two state or three state
- For auto start, select warm up, operating and cool down speeds

**Protection Flexibility**

The module can be configured to provide engine shutdowns and pre alarms for critical engine parameters such as low oil press and high engine temperature.

**Trouble Code Reader**

1. Trouble Code Displayed
2. Text Description Displayed
3. Red or Yellow Lamp Illuminated
4. Access Stored Codes on Engine ECU

**Flex Inputs & Outputs**

**Analog Flex Input** for either fuel level or oil pressure. Parameter is displayed and shut down can be enabled.

**Digital Flex Input** for any externally monitored switch. Shut down can be enabled. *(Used for auto start input signal on C3-4500-AS)*

**Flex Output** is a general-purpose 5A output to provide a run, pre alarm or alarm indication.

**Fault and Operation Logs**

Both fault and operation logs can be accessed showing the last 16 fault or operation events. Events are tagged with engine hours.



**MANUAL START**  
P/N C3-4500



**AUTO START**  
P/N C3-4500-AS