

J1939 iT4 ENGINE DISPLAY & CONTROL



Controls, Incorporated brings its advanced engine control technology and reputation for durability with the C4 Series, a microprocessor-based engine controller providing display, monitoring and control for SAE J1939 iT4 engines.

EASY-TO-READ DISPLAY (Standard/Metric Selectable)

- Engine Temperature
- Engine RPM
- Oil Pressure
- Battery Voltage
- Fuel Usage (GPH) or Fuel %
- Engine Hours

FAULT CODE READER

Fault codes are provided on the display along with easy-to-read messages, the occurrence count and associated lamps for pre alarm and alarm conditions.

THROTTLE CONTROL

The up and down buttons provide throttle control over the J1939 CAN bus. The minimum engine speed, maximum engine speed and rate of acceleration are selectable.

EMISSIONS INFORMATION

Emissions information for iT4 engines is provided with simple display messages and associated lamp indications.

INPUTS/OUTPUTS

Configurable "Flex" inputs and outputs can be assigned for different functions such as low coolant level or alarm relay outputs. A fuel level input is available that displays fuel level %.

ENCLOSURE

The enclosure is water tight, constructed of durable polycarbonate. Large, tactile dome buttons insure positive feedback for operators with gloves. A water tight 14 pin connector provides simple plug-in installation.



SPECIFICATIONS

GENERAL

Operating Voltage	5.5 VDC to 36 VDC
Maximum Current	
Consumption AT 12.6V	150mA
Operating Temp	-40°C to 80°C (-40°F to 176°F)
Storage Temp	-40°C to 80°C (-40°F to 176°F)
Reverse Polarity Protection.....	Yes
Transient Voltage Suppression	Yes
Load Dump Protection	Yes
Display	OLED, 1"H X 4"W (2 lines x 16 characters/line)
Standard/Metric Display	Selectable
Enclosure	Polycarbonate- IP68
Overlay/Interface	Autotex Polyester
Buttons	Tactile Stainless Steel Domes
Approx. Weight	1.5 lbs
Approx. Dimens.	5.69"H x 6.57"W x 1.61"D

COMMUNICATIONS

CAN bus	CAN bus J1939 Protocol
Relay Outputs	Assign to selected events

INPUTS

Analog Input	1
Digital Flex Input	1
Configurable as:	
1) Normally open or normally closed	
2) Relay closure, pre alarm or alarm	
3) User defined message for display	

OUTPUTS

5A Form A Dry Contacts	2
10A Form A Dry Contacts	
(Specification Dependent)	2
Each output is configurable as:	
1) Normally open or normally closed,	
2) Pre alarm, alarm, throttle or tied to flex input	
Throttle Control	J1939 TSC1
Throttle Options	Selectable
1) Standard	
2) Multi-State	
4) Disabled	

CONNECTOR

Tyco Ampseal 14-Pin	Water Tight
---------------------------	-------------

ALSO AVAILABLE

Additional features, inputs, and outputs are available with the C4-200 and C4-300 units.



5204 Portside Dr. • Medina, OH 44256
P: 330.239.4345 • F: 330.239.2845

www.controlsinc.com

Copyright © Controls, Inc. All Rights Reserved

