

DESCRIPTION

The iCAN™ Engine Control Module is a microprocessor-based, digital controller providing engine monitoring, control, and protection for SAE J1939 electronic engines. The large backlit display provides complete, easy-to-read engine information.

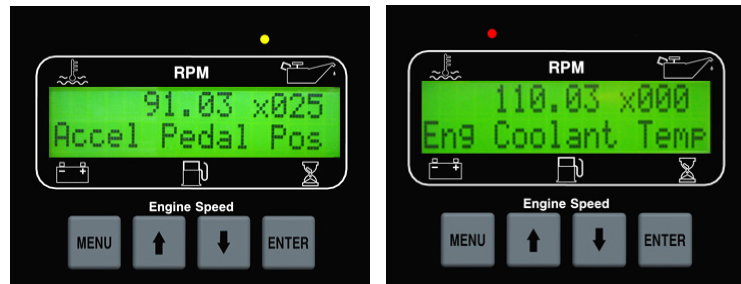
DISPLAY

Large backlit display with ½" characters. Six full-time display parameters.



ALARMS & SHUTDOWNS

Engine protection is provided with easy-to-read display messages and indication lamps (red and yellow) for pre alarm and alarm conditions. The display provides the SPN.FMI trouble code, the number of occurrences and a descriptive message.



ENCLOSURE

The enclosure is water tight, constructed of durable polycarbonate with an industrial overlay of autotext polyester. The heavy-duty package provides protection and longevity for off-highway industrial applications exposed to vibration, UV, chemicals, solvents, diesel fuel, oil, etc.

THROTTLE CONTROL

Three throttle control configurations are available (Selectable).

- Defined Range – Select min and max rpm settings, operate within range
- Two State – Two speed settings
- Three State – Three speed settings

BUTTONS

Large tactile dome buttons to insure positive feedback for operators with gloves.

CONNECTOR

A water tight 14-pin connector is utilized for simple plug-in installation.

FLEX INPUTS/OUTPUTS

The controller flex input and flex outputs are configurable to be normally open or closed and can be assigned for different functions. Customer specific display messages can be implemented for each input or output.



SPECIFICATIONS

GENERAL

OPERATING VOLTAGE.....	5.5 VDC to 20VDC
MAXIMUM CURRENT CONSUMPTION AT 12.6V.....	150mA
OPERATING TEMPERATURE.....	-20°C to +70°C
STORAGE TEMPERATURE.....	-30°C to +80°C
HUMIDITY.....	95% Non-condensing
REVERSE POLARITY PROTECTION.....	Yes
TRANSIENT VOLTAGE SUPPRESSION.....	Yes
LOAD DUMP PROTECTION.....	Yes
DISPLAY.....	LCD, 1" H X 4" W, (2 lines x 16 characters/line)
ENCLOSURE.....	Polycarbonate
OVERLAY/INTERFACE.....	Autotex Polyester
APPROX. WEIGHT.....	1.5 lbs
APPROX. DIMENSIONS.....	5.69" H x 6.57" W x 1.61" D

COMMUNICATIONS

ENGINE COM PORT.....	CAN bus J1939 Protocol
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INPUTS

ANALOG INPUT.....	1
DIGITAL FLEX INPUT.....	1
<i>Configurable as: 1) Normally open or normally closed, 2) Relay closure, pre alarm or alarm, 3) User defined message for display</i>	

FLEX OUTPUTS

5A FORM A DRY CONTACTS.....	2
5A OR 10A FORM A DRY CONTACTS (Specification Dependent).....	2
<i>Each output is configurable as: 1) Normally open or normally closed, 2) Pre alarm, alarm, throttle or tied to flex input</i>	

THROTTLE CONFIGURATION.....SELECTABLE

1) TSC Range 2) Digital 2-State 3) Digital 3-State 4) Digital Momentary 5) Disabled

CONNECTOR

TYCO AMPSEAL 14-PIN.....	ENVIRONMENTALLY SEALED
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OTHER

ENGLISH/METRIC DISPLAY.....	SELECTABLE
DISPLAY BACKLIGHT ADJUSTMENT.....	SELECTABLE
DISPLAY TEMPERATURE CONTRAST ADJUSTMENT.....	AUTOMATIC
<u>Extreme Cold Weather Option</u>	
OPERATING TEMPERATURE.....	-45°C to +85°C
STORAGE TEMPERATURE.....	-55°C to +95°C

SUMMARY

- Robust design & construction for heavy-duty, off-highway applications
- Easy-to-read, simple-to-operate
- Flexible input and outputs
- Configurable via user friendly menu selections (No computer interface required)
- Units can be pre-configured at the factory per customer specification