CONTROLS INCORPORATED

uCAN Series™ J1939 Engine Controller P/N C3-2500

DESCRIPTION

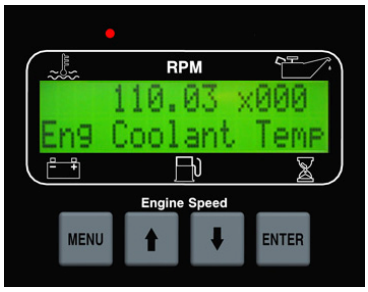
The uCAN™ Engine Control Module is a microprocessor-based, digital controller that provides engine monitoring, control, and protection for J1939 electronic engines. The large backlit display provides complete, easy-to-read engine information. The 21-pin connector plugs directly into CI control harnesses. With a simple operator interface and a robust, water tight enclosure, the uCAN™ is designed for industrial, marine and generator applications.

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, and a descriptive text message.



ENCLOSURE

The uCAN™ module is water tight and constructed from durable polycarbonate for protection and longevity in marine and industrial applications. The uCAN™ module and key switch are housed in a powder coated steel enclosure.

THROTTLE CONTROL

Three throttle control is provided via the UP and DOWN buttons. Several standard throttle 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
- Exponential or Linear Selectable Ramp Rate

CONNECTOR

A water tight 21-pin connector plugs directly into the Isuzu engine harness.

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 SURPRESSION.....Yes
LOAD DUMP PROTECTION.....Yes
DISPLAY.....LCD, 1"H X 4"W, (2 lines x 16 characters/line)
ENCLOSURE.....Polycarbonate w/ Powder Coated Steel Bracket
OVERLAY/INTERFACE.....Autotex Polyester
APPROX. WEIGHT.....6.5 lbs
APPROX. DIMENSIONS.....7.61"H x 10.13"W x 5.49"D

COMMUNICATIONS

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

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

FLEX OUTPUTS

5A FORM A DRY CONTACTS.....2
5A OR 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 CONFIGURATION.....SELECTABLE
1) TSC Range 2) Digital 2-State 3) Digital 3-State 4) Digital Momentary 5) Disabled

CONNECTOR

DEUTSCH 31-PIN (P/N HDP24-24-31PE).....ENVIRONMENTALLY SEALED

OTHER

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

SUMMARY

- Robust design & construction for demanding industrial and marine 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

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