

M150L15 Control Panels

Universal L15 Series Control Panel

for Electronically Governed Engines

Description

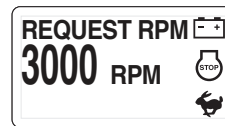
The M150L Series Control Panels are a universal platform of products designed to control J1939 electronically governed engines. With a family of panel configurations ranging from panel mount to single gauge to multi-gauge and a NEMA 4X enclosure virtually any installation can be met. If a panel or enclosure is not required the M150L series offers a kit containing all necessary parts that can be mounted in a customer specific panel design.

With a full featured J1939 interface the M150L15 series panels provide a complete interface for virtually any SAE J1939 data. With standard features such as "TSC1 Throttle Control", "Fuel Level Input", "Engine Oil Pressure" and "Engine Shutdown", the M150L provides the most features in the price range. The gateway interface is available in a 4" or 5" configuration. The M150L15 configuration can be shipped with variety of gauge configurations including; oil pressure, engine temperature, voltage and fuel expansion gauges.

Using the traditional look of a round gauge and the latest microprocessor technology the M150L15 series products provide the user with a traditional "look and feel" for controlling the latest electronic engines. Incorporating the latest technology allows the M150L products to be fully scalable from a single gauge solution to a full feature multi-gauge applications.

Display

The 128x64 LCD display provides an easy to read viewing area for system configuration and virtually any data reported by the ECU.



STANDARD FEATURES

- Analog Input for Fuel Level
- Analog Input for Engine Oil Pressure
- User configurable engine speed limits
- Programmable throttle operation
- Engine Maintenance Interval
- SAE J1939 compatible throttle control
- SAE J1939 compatible Diagnostics
- RGB LED backlighting multi-color display lighting
- Multi Language Support
- External Engine Shutdown
- Audible and Visual Alarms

INPUTS

- J1939 Engine Data
- Oil Pressure
- Fuel Level
- External Engine Stop

Throttle Control

A single momentary rocker switch adjusts the engine speed via CAN Bus communications to the engine. The throttle functionality is user selectable allowing the rocker switch to provide a smooth ramp function or a fixed rpm 2-State setting.



Enclosure


All M150L15 Series Control Panels are made from 14 gauge cold roll steel with welded seams. All units are powder coated to provide durability under extreme conditions. The L15 series panels provide 4 or 5 inch and 5-2 1/16 inch gauge openings to allow a choice of expansion gauges including traditional switch gauges.

Connector

A water tight 21-pin connector is used for plug-in installation.

Faria Corporation
P. O. Box 983
Uncasville, CT 06382
860.848.9271
Fax: 860.848.2704

Beede Instrument Company, Inc.
88 Village Street
Penacook, NH 03303
603.753.6362
Toll-free: 800.451.8255
Fax: 603.753.6201

 Made in the USA

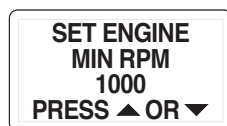
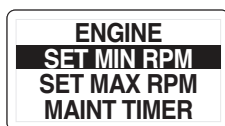
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Configurable Engine Speed Limits

The L15 Series Control Kit provides the user with two configurable engine speed settings. These speed settings can be set to any engine rpm within the min and max rpm range of the engine. One speed setting for minimum engine speed (i.e. Min RPM) and the other speed setting for maximum engine speed (i.e. engine Max RPM)



Faults

The M150L displays diagnostic messages from the ECU per J1939 format. All DM1 and DM2 diagnostic messages from the Engine ECU are reported. Engine specific diagnostics messages are available for specified engines. (See part number section for list of specific engine types.) Faults are indicated with a Red LCD display backlight. Warnings are indicated with an Amber LCD display backlight.



Engine Shutdown

A contact closure to ground for Engine Shutdown is provided as a customer input. When activated the M150L System will remove ignition voltage to the engine stopping the engine. The system will provide an alarm popup screen to signal the operator that the engine was remotely shutdown.



Fuel Level

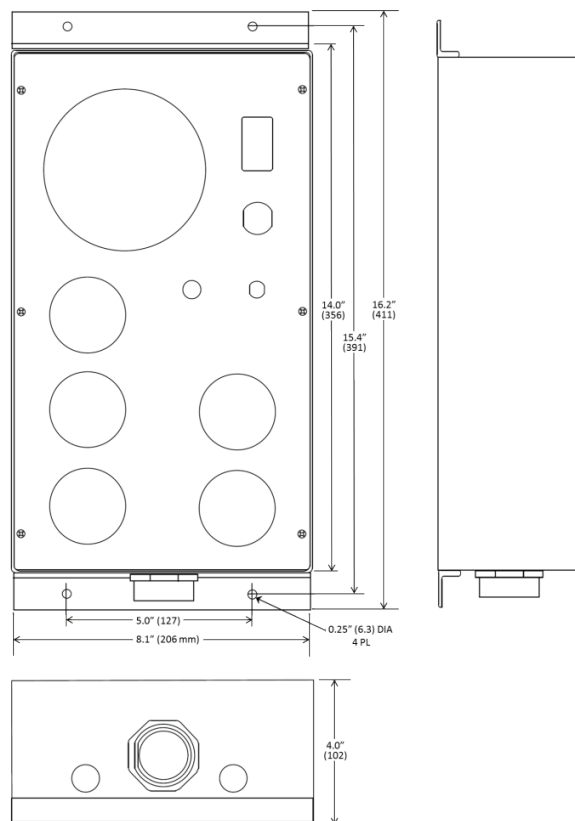
User configurable analog input for fuel level sensors. US 240-33 and Euro 10-180 ohm senders can be selected.

Maintenance Timer

User configurable maintenance timer. When programmed system provides warning message when maintenance timer has expired.

Available Parts

M150L15-00	CP - J1939 Eng Ctrl, T3, 4 in Tach - panel
M150L15-02	CP - J1939 Eng Ctrl, T3, 4 in Tach - panel (OP, Temp)
M150L15-03	CP - J1939 Eng Ctrl, T3, 4 in Tach - panel (OP, Temp & V)
M150L15-50	CP - J1939 Eng Ctrl, T3, 5 in Tach - panel
M150L15-52	CP - J1939 Eng Ctrl, T3, 5 in Tach - panel (OP, Temp)
M150L15-53	CP - J1939 Eng Ctrl, T3, 5 in Tach - panel (OP, Temp & V)
GE0171	Gauge - 2 in - Fuel Level, M150L Series Control
GE0172	Gauge - 2 in - Oil Pressure (100 PSI), M150L Series Control
GE0173	Gauge - 2 in - Water Temp. (250° F), M150L Series Control
VE0028	Gauge - 2 in - Voltmeter (10-16 vDC), M150L Series Control
HN0503	Harness - Gauges to Gauge (12 in)



Specifications

GENERAL

Operating Voltage	10.5 VDC to 18 VDC
Operating Temperature	-20C to 70C
Storage Temperature	-30C to 85C
Reverse Polarity Protection	Yes
Display	Color LCD 128 x 64
Enclosure	14 ga Roll Steel, welded seams
Approx Weight	8 lbs
Approx Dimensions	16.5"H x 8"W x 4"D

INPUTS

Analog Inputs 2

- 1 Channel Configurable for Fuel Level:
 - 240 to 33 ohms (US)
 - 10 to 180 ohms (EURO)
- 1 Channel Configurable for Oil Pressure:
 - 10 to 180 ohms (0 – 5 BAR)
 - 10 to 180 ohms (0-10 BAR)

Digital Inputs 4

- 1 Channel Engine Stop

Active signal: closure to ground

THROTTLE CONFIGURATION

Ramp - operate within engine range

Two State – Set two operating speeds