



# J1939 CAN Display



**SAE J1939**



The CAN display instrument is designed to read and process SAE J1939 compliant CAN messages. The large sunlight readable, transfective LCD displays operating parameters with easy to read characters. The "second line" data displays a continual readout of the engine's hours or "over the road" Odometer.

Up to 12 display pages can display the information being sent by the engine ECU, including Trip data and advanced Fuel Management. Should a DM1 or J1939 alarm occur the J1939 CAN display will activate a 13th display screen for the operator to log the alarm, while maintaining the regular data screens.

An audible beep will sound when a CAN error message is initiated from the ECU and the LCD will flash warning the operator of a fault or alarm. This alarm may be silenced temporarily by the user. A full list of faults is stored locally on the device.

**J1939 FAULT**  
**SPN XXXXX**  
**FMI XX**  
**CT XX**

On board programmable parameters allow for customizing of menu options including, Max Speed, Audio, Fuel Tank, Units and Master Program Reset (Return to factory settings).

## Features and Benefits

- SAE J-1939 CAN protocol support
- Nylon cases for corrosion resistance and long life
- Daylight readable LCD display with Red/White multi-color LED backlight.
- Audible and visual notifications for alarms
- Input for analog Fuel Level sender with programmable calibration.

## Available Display Functions


Voltage	Trip Data (Re-settable)
Engine Boost	Engine Hours
Engine Load	Fuel Used
Engine Coolant Temp.	
Fuel Level, Tank 1	Odometer
DEF Level	Fuel Rate
Oil Pressure	
Speed Over Ground	
Engine Speed	
Transmission Pressure	
Transmission Temp.	
Fuel Instantaneous	

All screens can be customized for OEM volume orders.

Fits a typical round 2 1/16" (53mm) panel hole.

Faria Beede Instruments, Inc.  
P. O. Box 983  
Uncasville, CT 06382  
860.848.9271  
Fax: 860.848.2704

88 Village Street  
Penacook, NH 03303  
603.753.6362  
Toll-free: 800.451.8255  
Fax: 603.753.6201

 Made in the USA

fm-001-0129 rev A 11/2015

www.FariaBeede.com

## Environmental Specifications

Shock (Non-operating):  
 50 +/- 2 G and a half sine duration of 11  
 +/- 2ms. per MIL-STD-202, Method 213

Vibration (Non-operating):  
 4 G peak, 10 to 200Hz  
 SAE J1455 Appendix A

Temperature:  
 Operating: -40°C to 85°C  
 Storage: -40°C to 85°C 50% RH

Humidity:  
 95% relative humidity @110°F (43°C) non-condensing

Salt Spray:  
 Front is Corrosion resistant per ASTM B117-73

## Electrical Specifications

Reverse Polarity Protection:  
 Standard entire system

Load Dump:  
 Meets SAE J1113, 3 positive 80V transients  
 one minute intervals

Operating Voltage:  
 18-32 VDC standard

Over Voltage:  
 Withstands 18V continuously for one hour

LCD:  
 64x128 Transflective FSTN-Gray dot matrix  
 positive image mode standard  
 6:00 O'Clock viewing angle  
 Red/White multi-color Backlight LED illuminated.

## Mechanical

Bezel Material:  
 Stainless steel or aluminum  
 Finish, customer specified

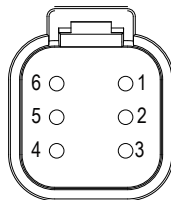
Case:  
 White thermoplastic copolymer

Dial:  
 Textured finish polymer  
 Opaque characters & background

Sealing:  
 IP 67 compliant

Menu Navigation:  
 "UP" and "DOWN" - Used to scroll  
 through available pages in Normal mode  
 and options in menus.  
 "MODE" button - Used to access menus.  
 A short pressing less than a second exits  
 the current page and a key pressing longer  
 than one second makes a selection.

## Wiring Connections



6 Pin Connector Detail  
 Mates with Deutsch I.P.D.  
 DT Series Connector

Pin	Connection Name
1	B+ 12/24v Ignition
2	J1939 (-) CAN - L
3	J1939 (+) CAN - H
4	Analog input (Fuel Sender)
5	Not Used
6	Ground

Connector - DT04-6P

16-20 AWG stranded copper wire recommended for all electrical connections.

## Product Outline Drawing



Molded 6-pin  
 connector;  
 DT04-6P

