Faria Beede INSTRUMENTS

Instrument Solutions for

Motor home and Luxury RV market

Analog Innovation for a Digital World

Analog MG3000

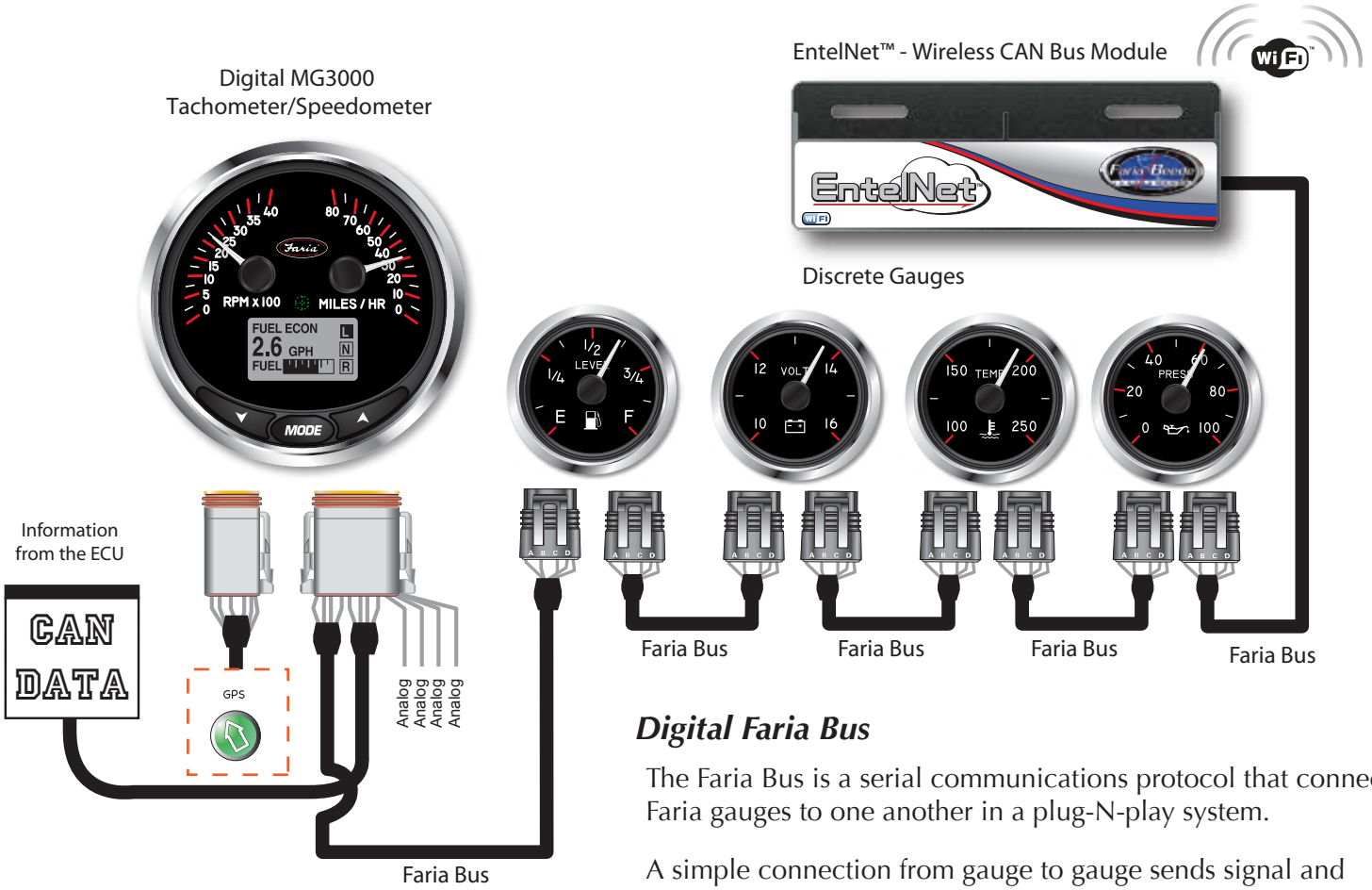
A complete solution for the small engine market. This compact instrument provides a single source view of the critical engine information without the need for an ECU to send data. The analog inputs are converted into digital information which can be displayed on the LCD and to move the digital stepper motor driven pointer.

A large sun-light readable LCD provides all of the information an operator will need at a quick glance.

Supports RPM, Temperatures, Fuel Level, Gear Position, Battery, Hourmeter, Trip, Odometer, Service Intervals and Alarms.

Features

- Sun-light readable display
- Super-Bright LED warning lights and audible alarms
- Analog / Switched inputs
- Weather resistant connectors
- Environmentally sealed enclosure
- Programmable Service Indicators
- Gear Position
- Speed by PPM and Drive-A-Mile



Analog or Digital (CAN) MG3000 has the information the user wants, right at their fingertips.

Digital Faria Bus

The Faria Bus is a serial communications protocol that connects Faria gauges to one another in a plug-N-play system.

A simple connection from gauge to gauge sends signal and power information down the line. Each gauge receives all the information it needs to display the required information.

Connect multiple devices on one Faria Bus network.

Just plug it in!

With the Faria Bus network you don't have to worry about how it will connect. The Wireless module simply connects to the Faria Bus cable. Mount the module and you are done.

Dashboard Application for Android Tablets

Wireless Dashboard

Real-World system data sent from the engine ECU and Analog inputs is displayed in the dedicated Android app on the SONY 8.0 or 10.1 inch display.

The system data, GPS speed, Map position, Instrument data, Asset monitoring data and CAN error codes are displayed in a virtual instrument dash board right on the tablet's screen.

Multiple "pages" can be displayed including:

- Standard and Secondary instruments
- Tank monitoring and control
- Fuel Management
- Error Codes

Future features planned

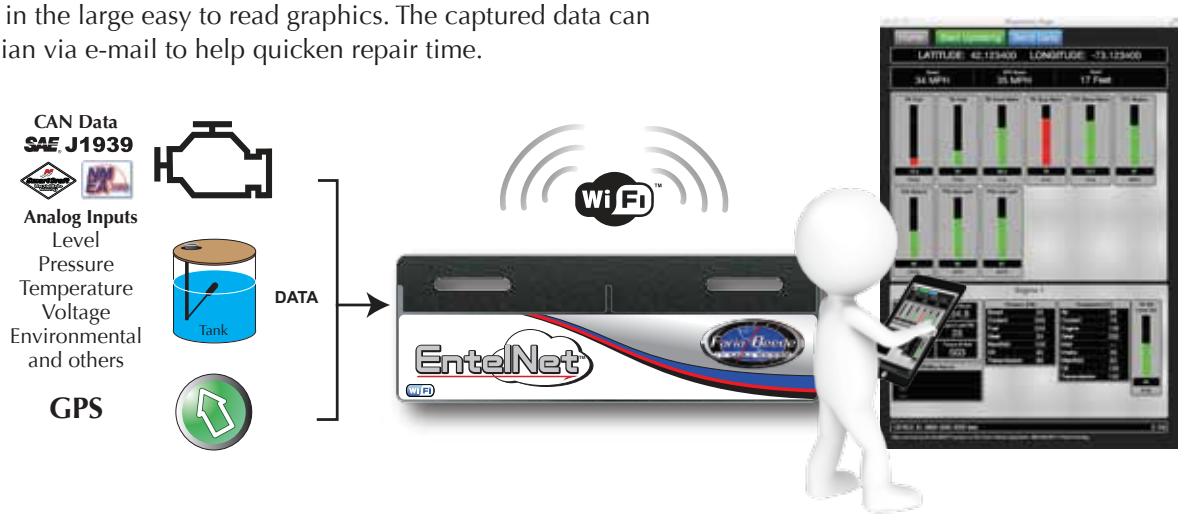
- Digital Switching and Lights

Built from the ground up to be a touch-based user interface. The application is built directly on the Android operating system. Each screen is optimized to maximize the touch screen. Large target areas ensure smooth operations even in the harshest environments.

Customizable User Interface

Local Wireless Telematics System

Using the EntelNet™ service - a multi part system which combines the information received from the engine ECU (via CAN Bus), Analog (resistance, voltage, etc.) or Serial data (RS-232 for NMEA 0183, typical for GPS) and an over the air communications system, i.e. Wi-Fi, - engine data is captured by the application and is converted and displayed in the large easy to read graphics. The captured data can be sent on to the technician via e-mail to help quicken repair time.



Digital Screen Products

Description

The “Mach” series of products are multi-functional / multi-purpose display centers for the commercial, industrial, recreational, military and marine markets. The MACH-7 (available with a 7.0” LCD screen) and the MACH-4 (available with a 4.4” LCD screen) is based on the Android operating system for maximized flexibility and is easily installed along with other Faria instruments and control switches.

Engine and Generator; monitoring, diagnostics, parameter monitoring, Navigation, Charting and Entertainment are major features designed into the “Mach” series architecture.

The distinguishing features of the product are a highly customized and feature rich graphical user interface, touch screen, Bluetooth and Wireless or Wired remote keypads providing a rich environment to meet future expansion needs, including telematics and the ability for remote monitoring and control of assets.

MACH-7

MACH-4

Features

Android®

Built for the Andriod operating system.
Available for:

Linux

Windows Embedded CE

QNX

The Android App

Real-World system data sent from the engine ECU and Analog inputs is displayed in the dedicated Android app.

The system data, GPS speed, Map position, Instrument data, Asset monitoring data and CAN error codes is displayed in a virtual instrument dash board right on the screen.

Multiple “pages” can be displayed including:

- Standard and Secondary instruments
- Ballast Tank monitoring and control
- Fuel Management
- Error Codes

Future features planned

- Cruise Control
- Depth – Side scrolling contour
- Digital Switching and Lights

Contour Style

Multi-level formed graphics give you the feeling you could reach right into your dash. Back-lit pointers and Stainless bezels offer a look of elegance. Add a little distinction to your dash with the Contour gauges.

Highly customizable. These gauges can be individualized to fit your graphics and color requirements.

Available in many instrument types and configurations.

Multifunction gauges

Dash boards are getting more and more crowded as today's technology explodes on to our boats. Often there are so many beeps and buzzes it's hard to see just what's happening. Of course you can fill up your dash with lots of little two inch discreet gauges but that too is often just as confusing. That's why Faria Beede developed our multi-function gauge.

We combined the most useful discreet gauges into one gauge and then styled them to match any of our many Standard styles. But just like all the rest of our gauge you can make the look your own. Our award winning designers will design a style that is just right for you.

Combine up to 5 discreet function on one gauge. That's up to 10 functions in the space of your Speedometer and Tachometer. Suddenly the dash doesn't seem so crowded any more.

Let us be your solution for dash overload.

MG3000

The digital gateway systems, available in the Speedometer or Tachometer, is a feature-rich, intuitive engine monitoring solution for the instrument market.

The digital instrumentation communicates directly with the J1939, NMEA2000 and SmartCraft protocols used by the engine ECU providing an important link between the operator and the engine ECU. With just a push of a button the operator can tell the status of the health of the engine including diagnostic messages, fault alerts, and parameter information.

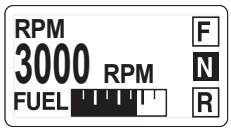
With a full featured J1939 interface the MG3000 series instruments provide a complete interface for virtually any SAE J1939 data.

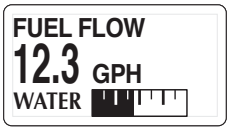
Connect to analog and digital signals to reduce installed costs significantly.

The MG3000 and other digital instruments from Faria Beede are fully scalable from a single gauge solution to a full feature multi-gauge applications.

Display

The 128x64 color LCD display, available on the MG3000, provides an easy to read viewing area for system configuration and virtually any data reported by the ECU. The new daylight readable LCD is visible even in direct sunlight.





The display is available with multiple RGB colors.

Yellow	Cyan	Goldenrod
Gr. Yellow	Blue	Tan
Green	Purple	White
Dk Sea Green	Pink	

Interface

The MG3000 can be configured with or with out the three front-mounted push button function selectors. These buttons control the user configurable software and provide access to variable menus and selections.

The MG3000 also allows for remote input device for control of the screens and data viewing.

Graphics

Faria Beede can help design your own custom graphics. Many dial ranges and scales are available including lens type, bezel color, pointer color and back-lighting.

Enclosure

The enclosure is molded from Poycarbonate plastic with integrated Deutsch style connector shells (sockets) and is sealed against water intrusion in accordance with Ingress Protection (IP) rating IP67. Wires terminate to a sealed Deutsch weatherproof connector.

The case is available in three water tight configurations from fully waterproof to vented.

Depending on instrument type the case is available in 2, 4 and 5 inch standard hole sizes.

Accuracy

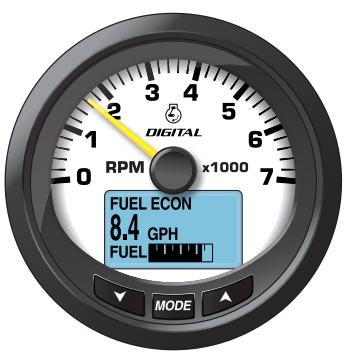
A digital stepper motor drives the pointers in our digital instruments. The stepper motor increases the accuracy and reliability of the instrument while reducing jittery pointers and providing longer life with a lower power requirement.

Connectors

A water tight 12-pin and 6-pin connector is used for plug-in installation.

Maintenance Interval

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



SAE J1939
SAE J1708

A user friendly digital engine monitoring solution.

Features and Benefits

- Tier 4 Compatible
- LCD data are available in 5 languages.
- Seasonal and Trip Data.
- Pop-Up screens for quick information display and warnings.
- Alarm codes with suggested actions.
- Data log for fault codes.
- A single Gateway instrument can monitor up to 5 tanks or other analog signals.
- Calibrate Fuel Level and Speed in gauge.
- Initialization mode to assist in gauge set-up.
- Superior Sunlight readable display.
- Units can be displayed in US standard or Metric
- Gear position indicators

Inputs

- CAN Bus (J1939, NMEA2000 and SmartCraft)
- Direct Pressure
  (30 PSI -200 kP) and (145 PSI - 10000kP)
- Analog Inputs
  5 Analog inputs are available (Customer specific)

Customize to fit your needs. Available in 4 and 5 inch. With or with out buttons.

J1939 CAN Bus Panels, Clusters and Instruments

New designs, including the popular MG3000 digital LCD display, adds the features of our best selling digital instrument in a single panel cluster design. Customize your panel with warning lights and discrete gauge functions.

Features and Benefits

- J1939 CAN Bus Instruments
- Stand-Alone technology - Each instrument receives information directly from the J1939 Bus
- Available in a wide variety of styles
- Designed and manufactured to MIL-STD-1275, MIL-STD-465, MIL-STD-464, MIL-STD-810 and SAE J113-13 specifications
- Multiple Analog and Digital Inputs to reduce system costs
- Made in the USA
  Uncasville, CT
  Penacook, NH
- Wide variety of instruments including 3-1 and 4-1 multi-function gauges, 4-inch and 5-inch Speedometers and Tachometers and a complete suite of 2-inch discreet instruments i.e, Fuel Level, Temperature, Volts and Oil Level

SAE J1939

Serving Industry Leading Companies for more than 50 years.

Kubota

AM General®

DOOSAN

HONDA MARINE

KOHLER®

Sea Ray

Husqvarna

SUZUKI

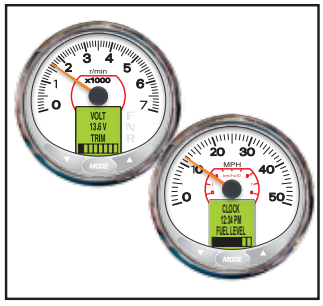
POLARIS®

Onan®

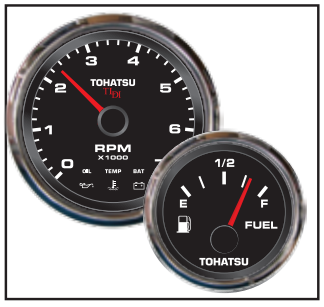
MOTOR HARLEY-DAVIDSON CYCLES®

EVINRUDE E-TEC

BRP



TOHATSU Outboards



Bad Boy

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LOFA™ INDUSTRIES INC.

Faria Beede INSTRUMENTS

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