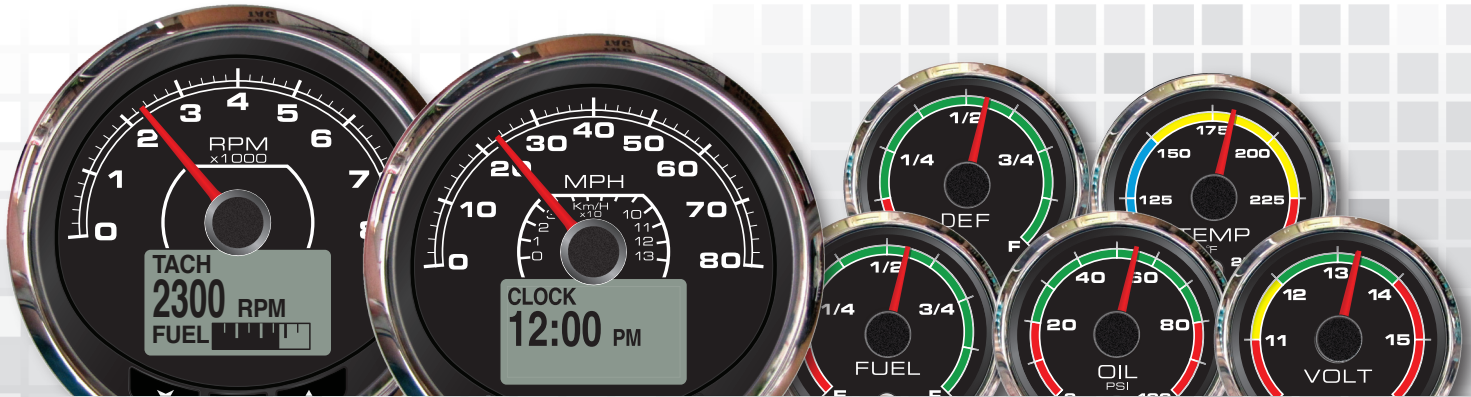




Instrument Solutions for

Lawn and Garden
Off Road
Industries

With some of the most sophisticated information and instrumentation systems in the industry, and a range of products that are rugged enough to survive on military Humvee and heavy construction equipment, or with innovative styling for your boat or RV, Faria/Beede Instruments have the right products to meet future global needs for rugged, reliable, and innovative instrumentation.



An ISO9001-2008 Registered Company

For more than 50 years Faria has been dedicated to the principle of supplying our customers with the highest quality product at the most competitive prices.

All Faria instruments are performance proven under the most demanding conditions. They are factory installed original equipment with major manufacturers worldwide. You can rely on Faria Instruments for world class quality, dependability and ease of installation.

Our years of manufacturing experience and knowledge of the industries we sell to have taught us to listen to the market place. Our in-house product design and development, component manufacture and instrument assembly allow us to respond quickly to your needs.

The company-wide use of Statistical Process Control (SPC), not only for ourselves but by our vendors as well, allow us to maintain a consistently high standard. In 1998, our efforts were recognized by the world as we became an ISO9001 registered company. We continually reaffirm our commitment to this standard and are now registered as a ISO9001:2008 company.

With the recent purchase of Beede Instruments of Penacook, NH, Faria has expanded our manufacturing capabilities to offer a broader product offering, unsurpassed value and design for all of our markets, including the US Military, industrial, recreational and majority of the world's leading boat manufacturers.

We support our products with a comprehensive Limited Warranty. Should you need them, our dedicated Customer Service Technical Experts are ready to provide installation, troubleshooting and warranty assistance.

Instruments for

**Automotive
Commercial
Industrial
Performance
Recreational
Marine
Military**



Rugged • Reliable • Innovative



Made in the USA

Small Engine users and Lawn Care equipment manufacturers

The small engine CAN Bus instrument is a complete solution for the small engine CAN bus market. This compact instrument provides a single source view of the critical information provided by the engine ECU.

A large sun-light readable LCD provides all of the information an operator will need at a quick glance. Super-bright LEDs signal the operator when there is a fault and requires action.

Faria Beede Instruments has a long history of working with CAN bus engines. Let our experience work for you.

Features

- Sun-light readable display
- Super-Bright LED warning lights and audible alarms
- Compact size
- Available in our Snap-In mounting system
- Analog / Switched inputs available
- Weather resistant connectors
- Environmentally sealed enclosure

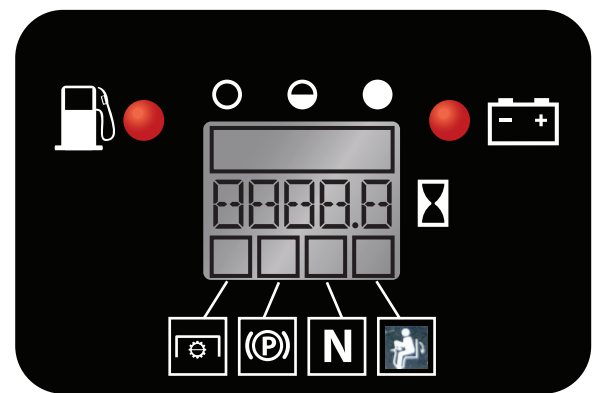
***Three configurations to
fit your every need.***

CAN Bus System with optional
Analog / Switched Inputs



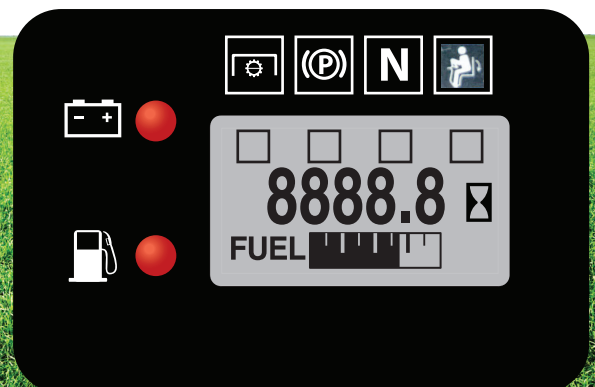
Actual Size

Available in Snap-In mounting
with molded Molex connector.



Similar Screen Size
Packaged in a Rectangular Form

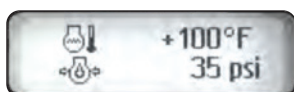
A Larger LCD Display
(Shown here actual size.)
Packaged in a Rectangular Form



J1939 Stand-Alone CAN Bus display



Instrument Shown
Actual Size



Configurable Two Line Display

Features and Benefits

- SAE J1939 CAN protocol support
- Compact packaging
- 32 X 128 dot matrix graphic LCD
- Displays active and stored faults (SAE J1939 DM1 & DM2)
- Single or Dual Line Display
- Three discrete LED indicators
- Alarm output capable of switching up to 150 mA
- Built in audible alarm (mutable)
- Built-in, sealed, tactile rubber keypad
- Bright, adjustable LED illumination
- Environmentally sealed connectors

NexSysLink[®] CAN Instruments Product Family

The NexSysLink CAN Bus display instrument reads and processes SAE J1939 compliant CAN messages.

The sunlight visible, transfective LCD displays operating parameters and is complemented by three discrete alert LED's.

An intuitive menu driven user interface accessed by three built-in tactile switches allows for easy display configuration.

Stand-alone and Master Node (MNI) configurations available. MNI configuration drives NexSysLink[®] SNI & ASNI gauges.

SAE J1939 Parameter Set*

Parameter Name	SPN	Parameter Name	SPN
Accelerator Pedal Position	91	Fuel Rate	183
Alternator Voltage	167	Engine Fuel Temperature	174
Battery Current	114	Engine Hours	247
Battery Voltage	168	Engine Oil Level	98
Boost Pressure	102	Engine Oil Pressure	100
Coolant Level	111	Engine Oil Temperature	175
Coolant Pressure	109	Hydraulic Oil Level	2602
Coolant Temperature	110	Hydraulic Temperature	1638
DEF Level	1761	Intercooler Temperature	52
DEF Temperature	3031	Percent Load	92
Engine Speed (RPM)	190	Vehicle Miles	245/917
Exhaust Gas Temperature	173	PTO Speed	186
Fuel Economy (Average)	185	Engine Throttle Position	51
Fuel Level 1	96	Vehicle Speed	84
Fuel Level 2	38	Transmission Oil Level	124
Fuel Delivery Pressure	94	Transmission Oil Pressure	127
		Transmission Oil Temperature	177

*Only actively broadcast parameters appear on the LCD.



ATV/RTV manufacturing

Analog MG3000

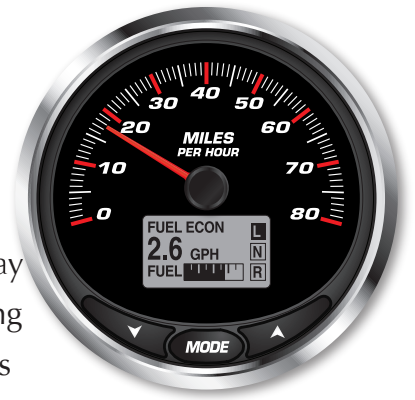
A complete solution for the small engine market. This compact instrument provides a single source view of the critical engine information without the need for an ECU to send data. The analog inputs are converted into digital information which can be displayed on the LCD and to move the digital stepper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

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

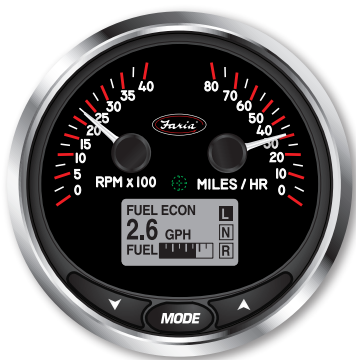
Supports RPM, Temperatures, Fuel Level, Gear Position, Battery, Hourmeter, Trip, Odometer, Service Intervals and Alarms.

Features

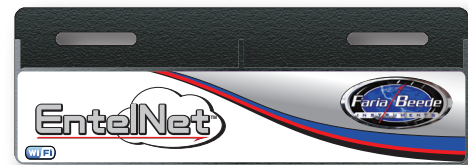
- Sun-light readable display
- Super-Bright LED warning lights and audible alarms
- Analog / Switched inputs
- Weather resistant connectors
- Environmentally sealed enclosure
- Programmable Service Indicators
- Gear Position
- Speed by PPM and Drive-A-Mile



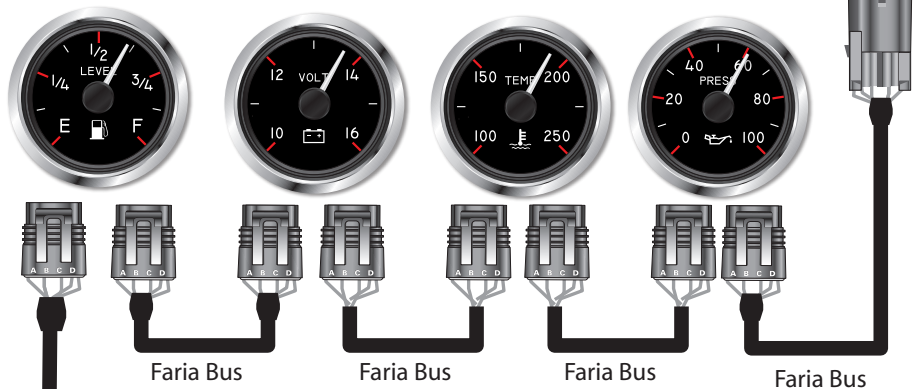
Digital MG3000
Tachometer/Speedometer



EntelNet™ - Wireless CAN Bus Module



Discrete Gauges



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.

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

Information
from the ECU

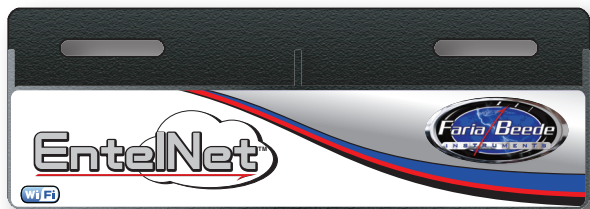
CAN
DATA

GPS

Analog
Analog
Analog
Analog

Faria Bus

Send your engine data to the cloud.



Step 1

(Connect to EntelNet™[web browser])



Step 2

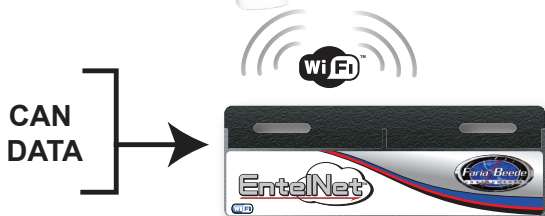
(Send e-mail)



Dealership

Step 3

(Response)



It's all about the fault codes

When a engine is malfunctioning the engine ECU transmits the area of the malfunction as a fault code.

The fault code is often used to turn on a lamp or an alert indicator. The EntelNet™ system records these fault codes and sends the data to the technician giving them a heads up of possible problems or a means to diagnose the engine's health remotely.

Connected directly to the CAN Bus, Real-World data is sent by the EntelNet™ wireless module (Wi-Fi™).

The data, GPS speed, Map position, Instrument data and CAN error code information is displayed in an easy to read website and can be view by any internet capable device i.e. Smart Phone, Tablet or Computer. No wires needed.

Get the technicians involved.

Send the engine and other critical data anywhere in the world to be diagnosed.

Helps reduce warranty costs and can help lessen repair time.

Data can be viewed on a secure website for remote systems diagnostics.



Internet Capable Device

Engine Monitoring and Alert Communications System.

When you are in range of a known Wi-Fi Hotspot, the EntelNet™ can load your trip and engine systems data to the web.

If a problem occurred during your trip a notice can be sent directly to the dealership so little concerns don't become big headaches.

GPS Speedometers



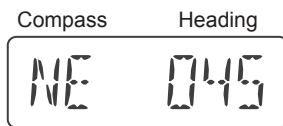
DISPLAY (Optional)

Choose between one of two functions for the optional LCD display. Course Over Ground or Odometer and Hourmeter.

Course Over Ground

The LCD display shows Heading and Compass and is back-lit for readability in inclement weather.

The LCD displays Compass Rose headings and actual course over ground heading. Heading is updated in 1° increments.



Odometer/Hourmeter

The display is a seven character LCD and can display up to 9,999,999 units in increments of .1 units. The LCD is back-lit with diffused LED light to provide maximum readability.

Displays Odometer or "Engine Running Only" Hourmeter hours.



ACCURACY

The GPS Speedometer has a Speed accuracy of +/- 1 MPH while moving and a hot (normal stand-by) start up time (TTFF - time to first fix) of about 1 second or a TTFF from a cold (no power applied) start of up to 30 seconds.

Heading accuracy is +/- 1 Degree.

INTERFACE

The dial face is illuminated with a premium LED lighting system.

GRAPHICS

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

Available in multiple Speed ranges to 80 MPH, 130 KPH, 50 and 70 KNOTS

available in
MPH • KPH • KNOTS

ENCLOSURE

The enclosure is molded from Polycarbonate plastic with integrated Deutsch style connector shells (sockets) or studded case and is sealed against water intrusion in accordance with Ingress Protection (IP) rating IP67. Wires terminate to a sealed Deutsch weatherproof connector or ring terminals. This wire configuration allows the GPS Speedometer to work as a **Plug and Play** addition to your current dash.

Sizes for a standard 4 inch (85 mm) 5 (112 mm) and 2 inch (53 mm) instrument dash hole.

A Speedometer to fit your needs

The GPS Speedometer is available in a wide varieties of capabilities and functions. Because every need is different.

Deutsch connectorized harness

This premium style Speedometer is designed with the very latest technology. It is designed to fit directly into today's dash harnesses with easy Plug and Play connectors. Premium LED lighting and an optional diffused LCD display.

Available in 5-inch, 4-inch and 2-inch styles.

Studded harness

The Studded Speedometer offers an easy way to add GPS technologies to your dash. Designed to fit into existing dash harnesses all ready installed. The Studded Speedometer connects directly to the battery and ground without the addition of a costly connector. Edge lit dials are easy to read in foul weather. Available in all Faria Classic styles.

Available in 4-inch and 5-inch styles.

Stand-Alone GPS Antenna

The new antenna is small in size but packs a lot inside. The GPS antenna uses a highly accurate 48 channel GPS receiver.

Designed to connect directly into the NMEA0183 harness. Use the new GPS antenna wherever you would use the current GPS antennas.

Ultra fast Satellite acquisition times (TTFF), with Speed Accuracy of +/- 1 MPH. Works better than the traditional GPS antennas at just a fraction of the size.



Shown actual size

Snap-In Multifunction Gauges

Designed to SAE specifications for Dust, Vibration and Water intrusion. The Snap-In instruments provide a Heavy Duty instrument in a easy to install push-in case manufactured in the USA.

This multifunction instrument provides many useful features in a small compact design. Available functions include; Inductive Tachometer, Hourmeter, Programmed Service Intervals and an analog discrete function (Ammeter, Voltmeter, Water Temp, Oil Temp, Oil Pressure, Fuel Level, Fuel Pressure)

No back clamp, washers, nuts or tools are required to install the gauge into your panel.

With its patented mounting design the Snap-In gauge is designed to install easily and reduce costs. Simply push through the mounting hole. The case springs out to hold your gauge in place.



Patented Design

Features and Benefits

- Inductive Tachometer with Hourmeter
- Programmable Service Intervals with alarm
- US standard and metric values
- Poly carbonate cases for corrosion resistance and long life
- No hassle mounting - reduces installation time
- Available with or without embedded Digital Hourmeter
- 2 inch gauges - Ammeter, Voltmeter, Water Temp, Oil Temp, Oil Pressure, Fuel Level, Fuel Pressure and Hourmeter



J-1939 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.

SAE J1939

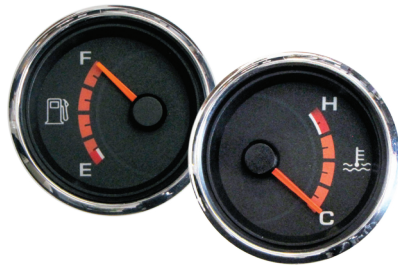
Commercial and Industrial Products

A wide range of Analog instruments with Digital functions

Available in a wide variety of styles and configurations.



Digital Stepper Motor instruments



- Direct Replacement for Analog Gauges
- Stepper Motor Driven gauges for increased Accuracy and Gauge Life.
- Uses Analog inputs
- Can be configured for any Analog configuration.

J-1939 Tell-Tale Indicator with 30 Icon Positions



- Environmentally sealed connectors
- Custom icon configurations available
- Up to ten discrete inputs switched either high or low
- SAE J-1939 CAN protocol support
- Connects seamlessly with NexSysLink MNI instruments
- Bright LED illuminated tell-tales
- Built in audible alarm and switched output

NexSysLink®

CAN Instruments Product Family

This CAN based product complements the NexSysLink® instrument system by providing thirty LED illuminated operator alert tell-tales along with an audible alarm to alert users to multiple fault conditions.

Product Description

The alert panel directly reads and processes SAE J-1939 compliant CAN messages, serial data from any NexSysLink Master Node Instrument and up to ten factory configurable discrete inputs switched either high or low to activate the tell-tales and/or audible alarm.

A discrete output capable of switching up to one amp and an audible output increase the utility of this product.

Control instruments for Electronically Governed Engines



The M150L00 Series Control instruments are designed to provide Plug N' Play solutions for installations with existing panel designs. These kits are designed to control J1939 electronically governed engines.

With a full featured J1939 interface the L00 series kits 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 L00 series kits provide the most features in the price range.

With the traditional look of a round gauge using the latest microprocessor technology the M150L 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.



(Pre-made panels available)

Programmable Tachometer



This tachometer can be programmed to function with 1, 2, 4, 6 and 8 cylinder gasoline engines and with most diesel engines, and can be used with most ignition coils including Alternator and Mag pickup inputs.

It is available in a wide range of scales or you can customize to fit your needs.

A versatile design from a leader in the engine monitoring industry, Faria products are designed to give you years of service and worry free performance.

Programmable Speedometer



- Easy programming (for 1 or 2 axle ranges)
- Hourmeter function available
- Program service intervals
- Store highest speed
- Custom proprietary features available
- Easy calibration -
 - drive a measured mile
 - calibrate from inside cab
 - preset at factory
- Speedometer sensors available

A Tachometer to fit every need



Universal Gas and Diesel

Available in 4 and 5 inch sizes with multiple ranges;

6000 RPM for Inboard and I/O engines

7000 RPM for all out board engines

3000 - 5000 RPM for diesel engines

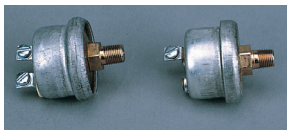
These tachometers are available for all ignition systems, alternators and diesel engines. Available with or without a digital hourmeter which records up to 999999.9 hours.

2 inch tachometer

Available in ranges from 1500 RPM to 4000 RPM. This 2-inch Tachometer connects to the Alternator signal or Magnetic Pick-up (dip switch settable). The tachometer has four range selections for rough calibration and an adjustment potentiometer for fine adjustment.

Senders, Sensors and Switches

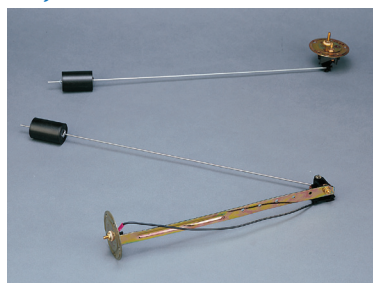
Pressure Switches



Temperature Senders

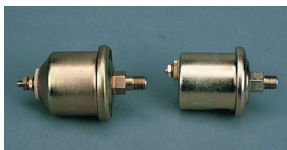


Adjustable Fuel Level Senders



(For Tanks 6 to 25" deep)

Pressure Senders

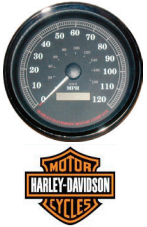


Temp. Sender/Switch



Built on a Strong Tradition of Excellence and Leadership.

1993 -
Faria develops a micro-processor for Harley-Davidson tachometers.



1997 -
Polaris adopts the Electronic Programmable Speedometer

Faria Introduces J1587/1708 Parallel Bus system.

POLARIS

1999 -
Faria introduces the Helmsman™. Giving an easy connection for ALDL, J1939 CAN to the Marine, Trucks & Bus and RV industries.



2000 -
J1939 CAN InfoCenter.

All in one gauge for GenSets and Construction equipment.



2004 -
Faria introduces the first NMEA part B certified instruments.



NMEA CAN InfoCenter™ and MG2000™

2005 -
MG2000™ is SmartCraft™ Certified.



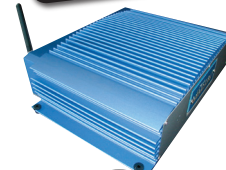
2006 -
Faria VTERM™ Telematic touch-screen display.



2006 -
Faria introduces the **ANTARES**



2007 -
Faria develops the first true Marine computer. **MAESTRO**



2011 -
MG3000™ a break through in single button navigation and user operability.



2012 -
Faria Mach-7 expands the touch screen products



2013 -
Faria introduces a GPS Speedometer - No external antenna required.

2013 - September
Faria acquires the assets of Beede Instruments. Beede brings almost 100 years of gauge manufacturing experience and knowledge to Faria manufacturing.



Rugged • Reliable • Innovative



Serving Industry Leading Companies for more than 50 years.

Kubota



AM General



DOOSAN



HONDA MARINE



KOHLER



Sea Ray



Husqvarna



SUZUKI



POLARIS



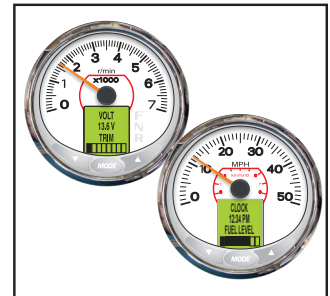
Onan



MOTOR HARLEY-DAVIDSON CYCLES



EVINRUDE E-TEC



TOHATSU Outboards



Bass Boat



LOFA INDUSTRIES



Made in the USA

Faria Beede Instruments, Inc.

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Fax: 860.848.2704

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