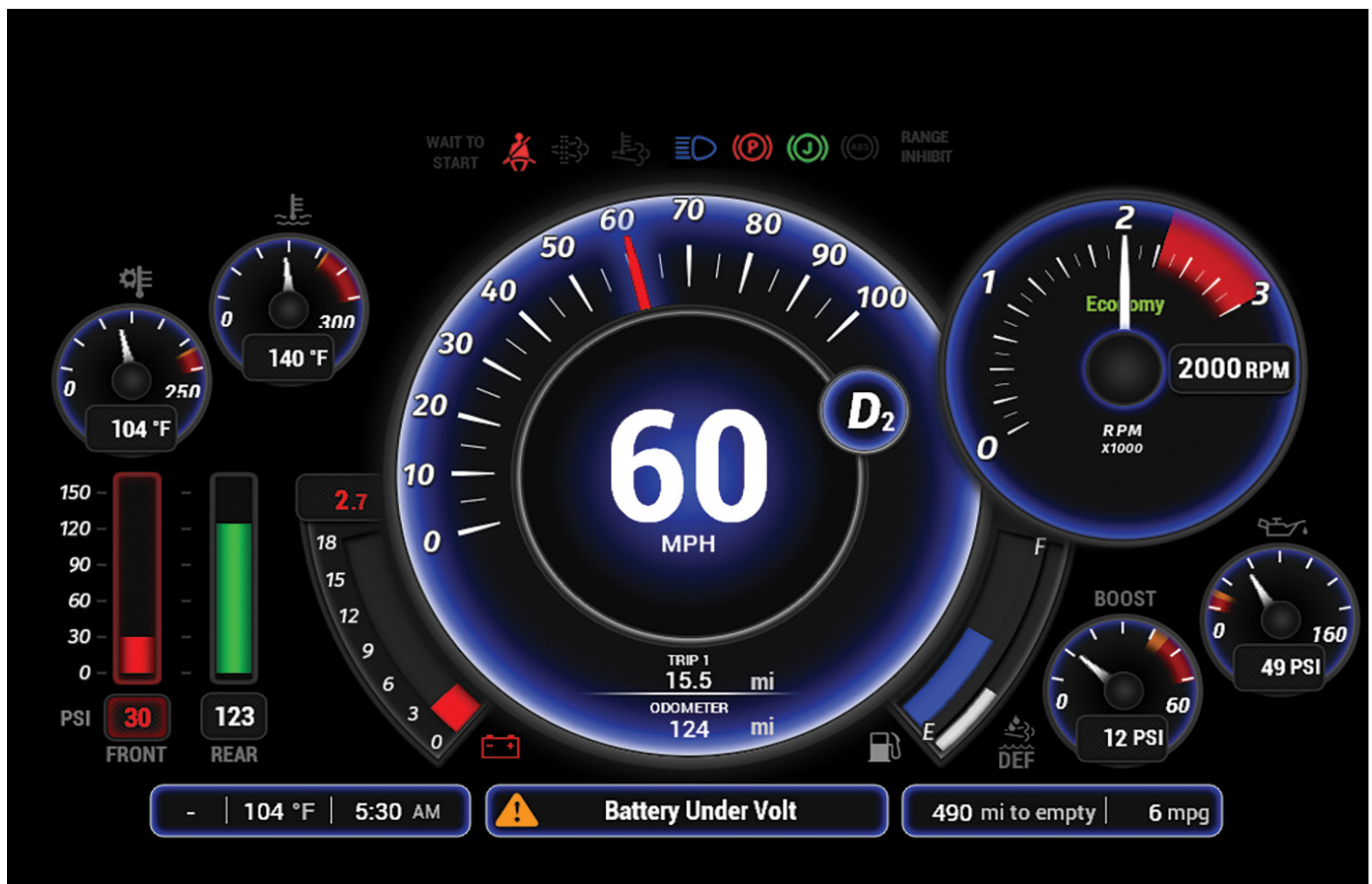


Valid Instrument Cluster

The Valid Instrument Cluster is a digital graphics-based alternative to traditional instrument clusters.

Inspired by luxury automobile displays, the Valid Instrument Cluster is designed with a rich, intuitive interface featuring fully-customizable graphics and a wide range of information displays.

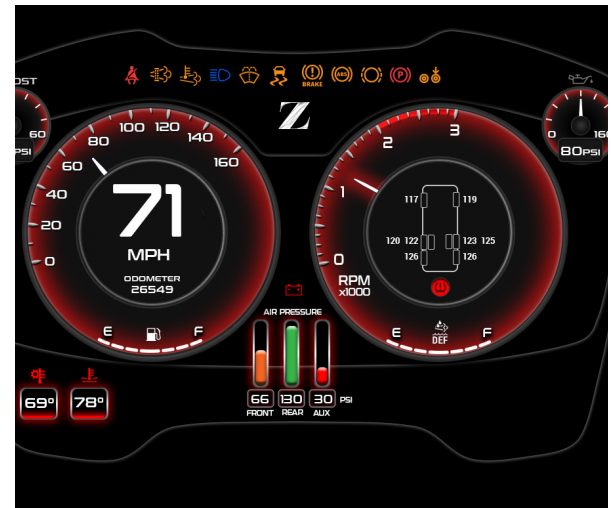


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ABSOLUTE CUSTOMIZATION

- Valid's Instrument Cluster is completely customizable to your requirements.
- Graphics are designed specifically with customer input to provide a truly unique product and branding.
- Available screen sizes include 12.1", 12.3" and 15" with other sizes available upon request.
- Multiple input options are available:
 - Rotary knob / joystick, touchscreen, steering wheel paddles and buttons.



Multiple input options include rotary knob/joystick (left), touchscreen, steering wheel paddles and buttons.

Customizable graphics also available for joystick buttons.

DRIVER CUSTOMIZATION

- Driver-configurable selection of background images and accent colors.
- 15" display is adjustable vertically.
- Adjustable day / night brightness levels, with extra contrast available for nighttime driving.



SEAMLESS INTEGRATION

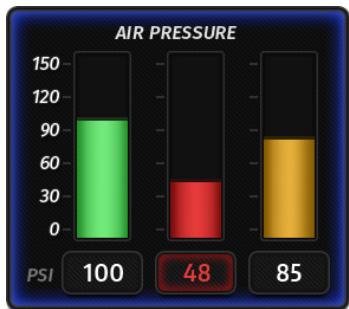
- Valid's Instrument Cluster unifies the display of information from both chassis and house systems into one visually-appealing interface.
- A large number of built-in I/O and connectivity options, as well as an integrated fuel sender interface, eliminates the need for additional modules, simplifying wiring in most cases.

“When you select Valid as a supplier, you get a partner that is **committed to your long-term success.**”



GUARANTEED QUALITY

- A quad-core processor provides the power for the same type of graphics engine used in Tier 1 automotive applications.
- Wide operating temperature range.
- High native brightness display coupled with strengthened anti-reflective glass provides a durable, easy-to-read experience.
- Valid™ is well known in the industry for providing unparalleled products and service. Our commitment to our customers continues long past product delivery.



Choose how information is displayed – needles, bars, symbols, words, and more.



Pre-drive checklist lets you know when it's safe to drive. This display is completely configurable.



An integrated fuel sender interface helps simplify wiring.



Battery power level



Tire pressure

INFORMATION DISPLAY

- Engine gauges / MIL
- Transmission
- Brake system
- Air system
- Tire pressure
- Suspension and leveling
- Fuel and trip information
- Diagnostics (OBD)
- Status of slide, step, entry or door status
- Battery voltages
- Generator / shore power status
- Camera video (IP)
- Additional options available. Please contact Valid for details.

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SPECIFICATIONS

- High brightness anti-reflective display available in 12.1" (4:3), 12.3" (8:3), or 15" (4:3)
- Quad-core graphics processor
- Dedicated I/O processor
- Dual CAN bus (J1939 250k / 500k and RV-C)
- EV drivetrain information
- Fuel-sender input (resistive)
- Ethernet, RS232
- Operating temperature range -30°C to +70°C
- Camera / infotainment integration (phone / media controls)
- Tire pressure monitoring interface
- On-board diagnostic decoded display
- Audio output via integrated speakers
- Standard I/O connections: 15 digital + 4 analogue inputs and 3 digital outputs.



The system comes ready to install, and can be configured as a 12.3" (8:3), 12.1" (4:3) or 15" (4:3) display.

