FuelShield-PLUS **- Fuel Inventory & Dispensing Systems**

HT-6119

High-LINK® **Integrated Systems** couple superior steel tank products with state-of-the-art electronic management devices and SCI's proprietary software providing real-time data to optimize usage and transfer of **any liquid operation.**

PRODUCT DETAILS

FuelShield-PLUS systems are the most advanced versions of our innovative wireless automated fuel management system. **Fuel**Shield-PLUS systems include **Level**Shield liquid inventory management capability to monitor fuel and water levels and liquids temperature.

Two systems are available:
- **Fuel**Shield-PLUS monitors liquids in up to 8 storage tanks
- **Fuel**Shield-MINI-PLUS monitors liquids in up to 4 storage tanks

Designed for stationary or mobile tank installations, it is suitable for both retail and commercial applications.

FuelShield-PLUS systems can be used in retrofit applications on existing pumping systems or designed into new facilities using digital pumps.

The additional hardware required for probe data receiving is housed in the **Fuel**Shield. A single **Fuel**Shield-PLUS unit can process data from up to 8 separate level probes and control despensing at 8 independent locations.

Similarly, the the **Fuel**Shield-MINI-PLUS can handle up to 4 probes and fuel dispensing locations.

Features:
- Track every fuel transaction by vehicle, driver, fuel type, amount, cost, date, and time
- Manage fuel transportation, receipt, dispensing, and consumption
- Easy-to-use cloud-based platform
- Secure and convenient multi-user web dashboard platform
- Full visibility of your entire operation from anywhere, anytime, on any device

Benefits:
- Eliminate fraud and human errors
- Authorize vehicles, equipment and operator fuel dispensing
- Cost-saving minimal installation
- Optimize fuel consumption
- Reporting, analytics, alerts and more with High-LINK software platform

FuelShield-Pedestal

High-LINK® Integrated Systems operate on a web-based platform providing critical data via any mobile device.

Each High-LINK® Integrated System is customized to site-specific conditions and requirements. Our management tools are user-friendly and can be managed remotely.

High-LINK®'s analytics improve business decision making process improving efficiency, reducing operating costs and system optimization.

High-LINK® Integrated Systems have been engineered to work seamlessly with all of our storage tanks and process vessels with each system being tailored to your needs.

Specifications

Physical
- Cabinet Size 15.25" W x 9.0" D x 64.0" H
  - Base Plate Footprint: 16.5" W x 10.0" D
  - Foundation Connection:
- Operating Voltages:
  - 12/24 VDC or 110-230 VAC
- Operating Temperature Range:
  - -32º to 135º F without heater
  - -55º to 135ºF with optional heater
- Control Panel Standard Features
  - Keypad
  - Dallas Key Reader
  - Digital Display: size, features?
- Access Panel (Locking, Rear):
  - 13.625" W x 35.0" HD
- System Bypass Key

Pump Controls
- Relay Contact Rating: 15 AMPS
- Pulsar Type: Contact closure- dry contact
- Pulsar Input: 2-wire
- Pulsar Speed: 1000HZ

Construction:
  - Welded aluminum
  - Powder coated
  - Sloped top to shed water/snow
  - Neoprene access panel seal

Certifications
- UL-508

Options
  - Emergency Stop
  - Cabinet Heater

Controls
- Up to eight (8) hoses
- Up to eight (8) level probes
- Unlimited drivers and vehicles

User ID Options
- Dallas Key
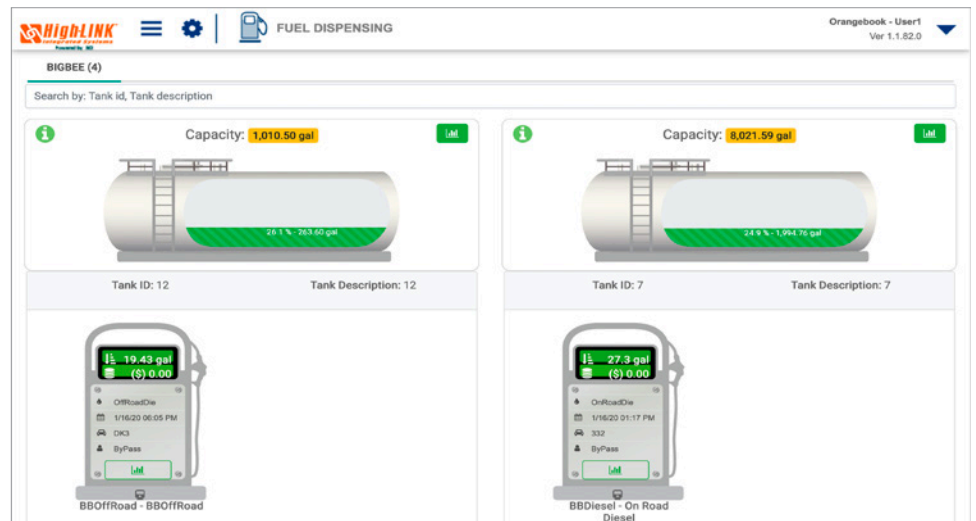- Magnetic Card
- HID
- PIN Pad

Vehicle ID Options
- Dallas Key
- Magnetic Card
- HID
- PIN
- RFID
- Barcode Scanner

Communication Options
- Satelite
- GPRS
- Wi-Fi
- LAN

The **Fuel**Shield module provides over 50 standard reports and multiple data filtering functions to provide users with big data analysis capabilities. User-defined custom reports are also available for tailored reporting.

The **Fuel**Shield-LITE model is also available for limited service monitoring 1 or 2 hoses.

M E A S U R E • M O N I T O R • M A N A G E

FuelShield - MINI

Specifications

Physical
- Cabinet Size: 14" W x 8" D x 16" H
  - Wall or supports mount
- Operating Voltages:
  - 12/24 VDC or 110-230 VAC
- Operating Temperature Range:
  - -32° to 135° F without heater
  - -55° to 135°F with optional heater
- Control Panel Standard Features
  - Keypad
  - Dallas Key Reader
  - Digital Display: 2-row, 16 block backlit

Pump Controls
- Relay Contact Rating: 15 AMPS
- Pulsar Type: Contact closure- dry contact
- Pulsar Input: 2-wire
- Pulsar Speed: 1000HZ

Construction:
- Welded steel
- Powder coated
- Rubber gasket access panel seal

Certifications
- UL-508

Options
- Emergency Stop
- Cabinet Heater
- Remote Access Cabinet

Controls
- Up to four (4) hoses
- Up to four (4) level probes
- Unlimited drivers and vehicles

User ID Options
- Dallas Key
- Magnetic Card
- HID
- PIN Pad

Vehicle ID Options
- Dallas Key
- Magnetic Card
- HID
- PIN
- RFID
- Barcode Scanner

Communication Options
- Satelite
- GPRS
- Wi-Fi
- LAN

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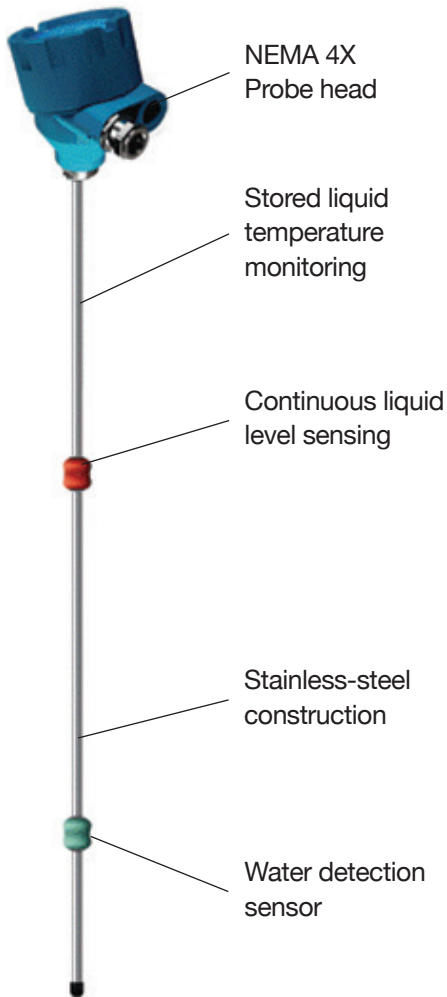
The **Fuel**Shield-LITE model is also available for limited service monitoring 1 or 2 hoses.

LevelShield

FuelShield-PLUS and MINI-PLUS arrive configured to handle input from up to 8 or 4 optional Magnetostrictive probes that can be installed in separate tanks.

Magnetostrictive Probe

NEMA 4X
Probe head

Stored liquid temperature monitoring

Continuous liquid level sensing

Stainless-steel construction

Water detection sensor

LevelShield **Specifications**
- 2-Float device
  - Continuous product level monitoring along entire length of probe
  - Water level in bottom of tank
- Integrated sensor for temperature-compensated volume monitoring
- Accuracy up to ± 0.02"
- Resolution ± .004"
- Operating temperature: -40° to 185°F
- RS-485 wired communication
- Sized to fit Highland Tank's standard tanks up to 14' diameter with longer lengths available upon request

Physical
- Floats: SP-P for product, SP-A for water
- Stem: 316L stainless steel tubing
- Tank connection: 2" NPT

Certifications
- Explosion-proof ATEX CESI & IENRIS-OIML R85 (pending)
- Class 1 Division 1&2 (Safer Barrier)
- Class 1 Zone 1&2 (Safer Barrier)

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LevelShield **Specifications**
- Plug-and-play design
- Liquids or solids measurement capabilities
- Compatible with any size tank and scalable for any size operation
- Customization options for a variety of applications and functions to meet any budget
- Can be used in hazardous locations
- Wide variety of level measurement technologies
- Remote displays and alarms available
- Retrofit or new construction
- Indoor and outdoor mounting
- Knowledgeable startup team and support
- No-cost site visits for estimates

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