

**Built on Tradition**



**Highland Tank®**



## FuelShield +

HT-6119

### Fuel Inventory and Dispensing System

FuelShield+ systems are the most advanced versions of our innovative wireless automated fuel management system. FuelShield+ systems include LevelShield liquid inventory management capability to monitor fuel and water levels and liquids temperature.

Two systems are available:

- FuelShield+ monitors liquids in up to 8 storage tanks
- FuelShield-MINI+ 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+ 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 FuelShield.



A single FuelShield+ unit can process data from up to 8 separate level probes and control dispensing at 8 independent 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.

## FuelShield 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:

- Minus 32° to 135° F without heater
- Minus 55° to 135°F with optional heater

### Control Panel Standard Features

- Keypad
- Dallas Key Reader
- LCD Display

### 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
- Sloped top to shed water/snow
- Powder coated
- Neoprene access panel seal

### 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

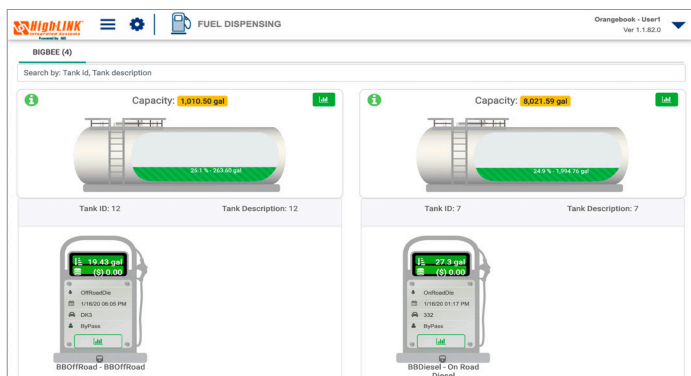
- Dallas Key
- Magnetic Card
- HID
- PIN
- RFID
- Barcode Scanner

### Communication Options

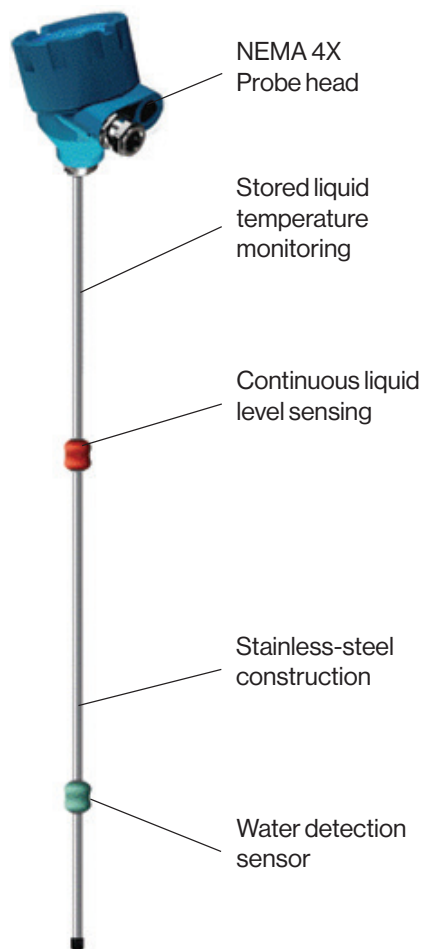
- Satellite
- GPRS
- Wi-Fi
- LAN

The FuelShield software 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 FuelShield-LITE model is available for specific applications monitoring 1 or 2 hoses



## Magnetostrictive Probe



## LevelShield Benefits

- 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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Utilizing big data analytics improves the business decision making process, elevating 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.

## Level Shield Specifications

- 2-Float device
  - Continuous product level monitoring along entire length of probe
  - Water level in bottom of tank
- Measuring accuracy up to  $\pm 0.02$ "
- Integrated sensor for temperature-compensated volume monitoring
- RS-485 wired communication standard
- Standard lengths of 60" to 167" (Longer probe lengths are available upon request)
- Resolution  $\pm .004$ "
- Operating temperature: minus 40° to 185°F

## Physical

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

## Certifications

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

Specifications for magnetostrictive probes only. Other level-sensing equipment is available upon request.

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



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