

# Additive Injection System

Automate Your Premium Fuel Program

The **Additive Injection System (AIS)** is a complete solution that delivers a premium fuel program across your network and integrates with Veeder-Root TLS Automatic Tank Gauges (ATGs) to automate the injection process. The AIS provides consistent distribution of additives throughout the entire delivery of fuel into gasoline and diesel storage tanks. It continuously calculates and injects every few seconds, directly into the flow stream, over the course of the delivery, which greatly improves blend uniformity as compared to competitive batch blend systems.



## ► IMPLEMENT A PREMIUM FUEL PROGRAM WITH AN ADDITIVE INJECTION SYSTEM

- **Continuous and simultaneous operations** for up to (8) fuel tanks with standard configuration and expandable, if required
- **Flexible, scalable solution** works with any additive tank type and size (e.g., aboveground, underground, drum)
- **Precision measurement** allows for full traceability to blend ratio and automatic adjustments to maintain blend ratios
- **Automated injections** drive an efficient fuel delivery process – No driver intervention needed

## ► BENEFITS OF AN ADDITIVE INJECTION SYSTEM FOR RETAIL FUELING OPERATIONS

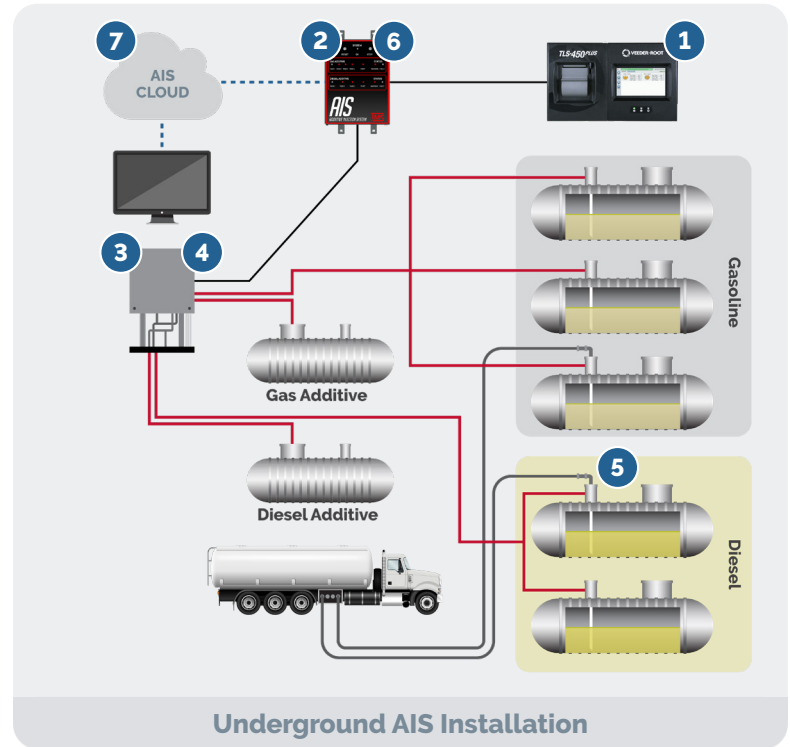
- Differentiate fuel offering with enhanced additive content that improves engine performance
- Improve safety and eliminate human error involved with manually dosing tanks with additive
- Create fuel sourcing options by taking control of premium additives
- An on-site fuel additive program typically yields savings of \$0.02 - \$0.03 per gallon, as compared to additized fuel at the rack
  - **\$0.02/gallon x 10,000 gallons/day x 365 days = \$73,000 annual savings**



**DELIVER ON YOUR BRAND PROMISE OF PROVIDING PREMIUM FUEL PRODUCTS**

## ▶ HOW IT WORKS

- 1** The **TLS-450PLUS ATG** alerts the AIS Controller that a delivery is in progress.
- 2** The **AIS Controller** receives the delivery signal and activates the additization process. The AIS Controller manages blend ratios and controls system hardware.
- 3** **Solenoid valves** open to release the flow of additive into the tank.
- 4** **Flow meters** monitor the dosing of fuel additive.
- 5** **Collar drop** positions the additive into the stream of the delivery.
- 6** The **AIS Controller** manages input from the flow meters and closes the solenoid valves when the desired blend ratio is met.
- 7** The **AIS Cloud** provides access to configure and manage the system remotely.



Underground AIS Installation



## SYSTEM FLEXIBILITY TO SCALE WITH YOUR NETWORK

Install configurations can be tailored to meet your site needs

Tank Configuration	AIS Kit	AIS Plus	AIS Complete
Description	Flexible system comprised of 1 environmentally sealed flow meter per additive and 1 solenoid injection kit per tank. The flow meter and solenoid valves are installed in the containment sump of the additive tank and product tanks respectively.	Self-contained stainless steel cabinet that includes flow meters, solenoid valves, and integrated filtration for the additive and a calibration kit. It can be configured to support 1-2 additives and 3-8 tanks.	Turnkey additive injection system with an integral 264 gallon double wall additive tank.
Typical Application	Retrofit	New Builds & Retrofit	Retrofit
Additive Tank	45 Gallon Drum Minimum No Max Size	45 Gallon Drum Minimum No Max Size	Aboveground Tank, 264 Gallons
Install Location	Containment Sump	Wall Mounted Cabinet	Forecourt
Number of Additives	Single Additive/Kit	Multiple Additives (1-2)	Single Additive
Built in Calibration	-	Yes	Yes
In-line Additive Filtration	-	Yes	Yes