Franklin Fueling Systems

TURBINE
PUMP INTERFACE

POWERED BY EVO™ SERIES

TURBINE PUMP INTERFACE

All EVO™ Series ATGs include the industry's only Turbine Pump Interface (TPI) capability for enhanced and automated submersible turbine pump monitoring and control.

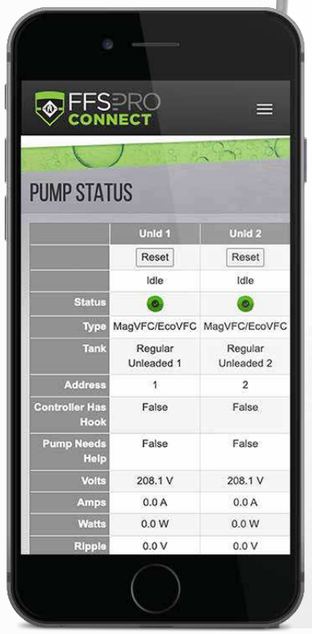
ENHANCED PUMPING

Turbine Pump Interface is a powerful tool that creates a network between your Submersible Turbine Pump (STP) controllers and EVO™ Series ATGs. Through TPI, the tank gauge can be programmed to respond to faults in the submersible pumping system and react with intelligence that pump controllers alone cannot. The devices share data to provide you with enhanced system capabilities like:

- Remote access to STPs
- Response automation
- STP history reporting
- Pump in water prevention
- Clogged STP intake escalation
- Overfill protection/automation
- Primary/secondary pump management
- Adjusted pump priority (leveling on the fly)

REMOTE ACCESS

Once notified of a pumping system event via TPI, anyone with network access can open up any web-enabled device (PC, tablet, smart phone) and log into the tank gauge web interface where they review pumping systems data and even execute tasks remotely. This enables technicians to have a better understanding of a site problem and the potential solution before they travel to the site.



IN ACTION

Check out these real-life scenarios where TPI can increase efficiency and protect your business.

PUMP IN WATER AUTOMATION

Scenario: When the water level in a tank approaches the pump intake, the tank gauge will enter alarm mode and automatically shut down the pump, protecting the system and consumers from water being pumped from that tank.

TPI Saves the Day: By shutting off the affected pump, **TPI prevented water from being pumped into the customer's vehicle**, avoiding potential damage and lost customer loyalty. Additionally, the fuel management rules engine can automatically notify the proper off-site personnel to ensure a timely and accurate response.

LEVELING & PRIORITY MODES

Scenario: When managing two storage tanks of the same product 'Leveling Mode' can keep both tanks at the same percentage full without the use of a syphon bar between the two tanks. Alternately, 'Priority Mode' will pump one tank down to a certain level before turning on the other pump.

TPI Saves the Day: Leveling Mode mimics a traditional syphon system **without the upfront cost of piping between the two storage tanks**. You can also avoid the on-going maintenance costs of servicing the syphon bar as well as the additional piping penetrations in the tank sumps.

CLOGGED INTAKE ESCALATION

Scenario: When the pump controller reports a dry run, the tank gauge automatically verifies against product levels and determines whether a clogged intake has occurred. If clogged, the tank gauge on it's own automatically will attempt to clear the intake.

TPI Saves the Day: By attempting to clear the intake on its own, **TPI can eliminate the need for a service call.** Whether the intake is cleared or not, TPI will log the alarm to provide detailed history to expedite service in the event of a future dry run versus clogged intake alarms.

REMOTE PUMP INTERACTION

Scenario: A site reports an intermittent problem with the pumping system, but cannot provide any detailed feedback of the alarms being issued by the intelligent controllers and the tank gauge.

TPI Saves the Day: By networking the intelligent controllers to the fuel management system via TPI, **a technician can remotely connect to the site to review the logged event history and view the status of the pump controllers.** If necessary, the history provided by TPI can ensure the proper equipment is on the technician's service vehicle before leaving to perform maintenance.

1 DIGITAL INVENTORY PROBE

2 EVO™ 600/6000 ATG

3 GUARDIAN SERIES™ STP CONTROLLER

4 SUBMERSIBLE TURBINE PUMP

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