

Red Jacket® Diagnostic Monitoring

Diagnose and Troubleshoot STP Equipment through the TLS-450PLUS

New Pump Status Feature with Amp and Voltage Reporting

Provide Insight to Your Fueling Operations

Gain real-time visibility regarding the performance of your Red Jacket Submersible Turbine Pumps (STPs), make informed maintenance decisions, and ensure efficient service calls. Intelligent Pump Control (IPC) Software with Red Jacket Diagnostics runs on the TLS-450PLUS Automatic Tank Gauge (ATG), and communication flows between the ATG and STP through the IQ Smart Control Box.



TLS-450PLUS

IQ Control Box

Red Jacket® STP







- The TLS-450PLUS ATG provides the most comprehensive site data for advanced fuel asset management, including real time updates and alerts on dispense modes, manifolding, communication and system faults.
- The IQ Smart Control Box contains the intelligent circuitry that allows the communication path to flow between the ATG and STP, providing key data for site owners to make informed business decisions.
- The Red Jacket Fixed Speed STP
 optimizes the fueling process and provides
 real-time performance data. The IPC
 Software with Red Jacket Diagnostics
 empowers you with the data needed to
 make informed site operation decisions.

DIAGNOSTICS AND FAULTS

Here is a list of the new equipment alarms provided on the TLS-450PLUS through IPC that helps diagnose and troubleshoot Red Jacket STP conditions before technicians are dispatched.

Communication Failures		
TLS Alarm/Pump Controller Comm Screen Status	Description/Cause	IQ Control Box Red LED Indicator
Uncalibrated	IQ Control Box has not been calibrated to the current STP	Device is Uncalibrated (1 Flash)
Overload/Locked Rotor	Overcurrent Condition (e.g., Locked Rotor, Pump Shutoff)	Overcurrent Fault (2 Flashes)
Dry Run	 Protection to prevent UMP from spinning without product available in the tank Motor trying to pump when no product is available 	Dry Run Fault (3 Flashes)
Underload	Low AC Current	Low AC Current (4 Flashes)
Network Area	Setup/Communications Error	Setup/Communication Error (5 Flashes)
Under Voltage	Voltage level below threshold levels for 5 consecutive reads	Low Line Voltage (6 Flashes)
Bypassed	IQ Control Box Normal/Bypass jumper left in Bypass position	Bypass Mode (7 Flashes)
Extended Run	 Unitized Motor Pump (UMP) is being monitored to determine if it has been running for too long 	Extended Run (8 Flashes)
Open Circuit	IQ Control Box is off or the motor is completely disconnected	LED Off

