

Franklin Fueling Systems

EVO 600, and EVO 6000 Consoles with FMP-ULS Universal Liquid Sensor, FMP-UHS Universal Hydrostatic Sensor, FMP-ULS-C Universal Liquid Sensor Chemical, FMP-ULS-PS Universal Liquid Sensor Position Sensitive sensors

INTERSTITIAL DETECTOR (LIQUID-PHASE)

Detector:

Output Type: qualitative

Sampling Frequency: continuous

Operating principle: float/reed switch

Test Results:

	<u>unleaded gasoline</u>	<u>diesel</u>	<u>biodiesel</u>	<u>water</u>	<u>E85</u>	<u>brine</u>
FMP-ULS						
Detection time (min)	<1	<1	<1	<1	<1	
Fall time (min)	<1	<1	<1	<1	<1	
Threshold Level (in)	1.0155	0.9944	0.9925	0.8775	1.0198	
FMP-UHS						
Detection time (min)	<1	<1	<1	<1	<1	<1
Fall time (min)	<1	<1	<1	<1	<1	<1
Threshold Level (in)	0.9602	0.9144	0.9218	0.8521	0.9397	0.7561
FMP-ULS-PS						
Detection time (min)	<1	<1	<1	<1	<1	
Fall time (min)	<1	<1	<1	<1	<1	
Threshold Level (in)	1.4915	1.4882	1.4758	1.3770	1.4962	
	<u>Lubrizol</u>	<u>Afton</u>				
FMP-ULS-C						
Detection time (min)	<1	<1				
Fall time (min)	<1	<1				

Threshold Level (in)	1.1124	1.4290
FMP-ULS-PS		
Detection time (min)	<1	<1
Fall time (min)	<1	<1
Threshold Level (in)	1.4959	1.4290

Applicability:

California Code of Regulations require a written statement of compatibility for systems containing products other than those used in this evaluation.

Comments:

Ken Wilcox Associates (KWA) has previously evaluated these sensors on one or more Franklin Fueling Systems ATG consoles. Results from the alarm functionality testing with the EVO600 and EVO6000 consoles have been combined with previously evaluated sensor threshold data performed by KWA.

Sensor TSP-UHS is the same as the TSP-ULS sensor except that the float has been inverted so that it may be used to monitor the brine reservoir of containment sumps.

An alarm condition will occur when the fluid level drops below the end of the sensor.

The FMP-ULS-PS is a position sensitive float switch that issues an alarm if not installed properly at the bottom of the intestinal or sump. Sensors are reusable.

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 Dates of Evaluations: 05/02/2017, 11/08/18

