

Franklin Fueling Systems

EVO 600 and EVO 6000

Consoles with FMP-DIS Discriminating Interstitial Sensor and FMP-EIS Electro-Optical Interstitial Sensor

INTERSTITIAL DETECTOR (LIQUID-PHASE)

Detector:

Output Type: qualitative
 Sampling Frequency: continuous
 Operating principle: conductivity, electro-optic

Test Results:

	<u>unleaded gasoline</u>	<u>diesel</u>	<u>waste oil</u>	<u>water</u>	<u>E85</u>
FMP-DIS					
Detection time (min)	<1	<1	<1	<1	<1
Fall time (min)	<1	<1	<1	<1	<1
Threshold Level (in)	0.2996	0.3057	0.2934	0.3134	0.2886
FMP-EIS					
Detection time (min)	<1	<1	<1	<1	<1
Fall time (min)	<1	<1	<1	<1	<1
Threshold Level (in)	0.2718	0.2728	0.2534	0.2792	0.2700

Applicability:

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

Comments:

Sensors can be removed, cleaned, and reinstalled if an alarm is triggered or if the sensor is periodically tested.

The FMP-DIS and FMP-EIS sensors are identical in operation and communication to Franklin Fueling System’s TSP-DIS and TSP-EIS sensors. The FMP-DIS and FMP-EIS sensors can connect to any INCON console with no software or setup changes. FMP-DIS and FMP-EIS sensors can be distinguished from TSP-DIS and TSP-EIS sensors by the part number on the label that begins with “FMP” instead of “TSP.” The TSP-DIS, TSP-EIS, FMP-DIS and FMP-EIS sensors appear as the same device from the automatic tank gauge.

The FMP-DIS sensor uses two conductive pins to detect whether the liquid is water or fuel. When tested in three mixtures of water/E85 (i.e., 20%/80%; 30%/70%; and 70%/30%), the FMP-DIS sensor went into alarm when subjected to the upper and lower layers of water/E85. For the upper layer containing hydrocarbon, the DIS sensor indicated a product or alarm as designed. For the lower layer of liquid, the DIS sensor indicated a "water" alarm.

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| [Home](#) | [Vendors: A - F](#) | [Vendors: G - M](#) | [Vendors: N - S](#) | [Vendors: T - Z](#) | [Method Index](#) | [Glossary](#) |

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