



LIQUID MEASUREMENT SYSTEMS

ON-BOARD PROCESSING PROBE (IN DEVELOPMENT)

OVERVIEW

Liquid Measurement System's new fuel gauging probe with on-board processing combines probe and signal conditioner in one piece of hardware with no moving parts.

- Reduces development time
- Works with a variety of fuel tank configurations
- Streamlines mounting and installation

INPUTS

- Carbon fiber capacitance probe
- Up to 3 discrete open/gnd inputs
 - IBIT initiate
 - Set high/low level

OUTPUTS

- ARINC 429, CANBUS, or analog signal
- Up to 3 discrete open/gnd outputs
 - Low/high level
 - Failure warning
 - IBIT in progress

BUILT-IN TEST

- Self-test capability (startup/initiated/continuous)

CERTIFICATION

- Accuracy to JSSG-2009A Class 2 and AS405D
- Software DO-178C DAL B
 - Outputs/tank tables customizable with PDF
- Safety objectives from AC 25.981-1C
- Environmental conditions from MIL-STD-810
- Electromagnetic interference compatible with MIL-STD-461
- DO-160G, Section 22 – Lightning Level 3
- MIL-STD-704F 28VDC Input power

MOUNTING

- D38999/ 13-pin size B connector
- Flange: 5" diameter x 2" tall (12.7cm x 5cm)
- Mounts through 2" diameter hole in top or bottom of tank
- Weight: < 3 pounds (1361 grams)
- Aluminum with corrosion protection



FUEL GAUGING PROBE
WITH ON-BOARD PROCESSING

ACCURATE | AFFORDABLE | CONVENIENT INSTALLATION | TWO FUNCTIONS IN ONE LIGHTWEIGHT LRU



LIQUID MEASUREMENT SYSTEMS, INC.
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