



# LIQUID MEASUREMENT SYSTEMS

## ON-BOARD PROCESSING PROBE

### 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.

- 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

- Software DO-178C DAL B
  - Outputs/tank tables customizable with PDF
- Compliant with AC 25.981-1D
- 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

### SYSTEM ACCURACY

- MIL-G-26988C Class II ( $\pm 2\%$  indication,  $\pm 0.75\%$  full scale)
  - No Compensator Required for One Fuel Type
  - Compensator Required for Multiple Fuel Types
- MIL-G-26988C Class I ( $\pm 4\%$  indication,  $\pm 2\%$  full scale)
  - No Compensator Required for Multiple Fuel Types

### 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: < 2 pounds
- Nickel plated 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.**  
FUEL PROBES • CONDITIONERS • FUEL INDICATORS • REFUEL PANELS  
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