



# LIQUID MEASUREMENT SYSTEMS

## REFUEL PRESELECT PANEL

### OVERVIEW

Liquid Measurement Systems (LMS) provides fuel gauging and interface controls for service, maintenance, and flight crew personnel, at the primary refuel point on the aircraft.

External Refuel Preselect Panels can display the quantity of fuel in each tank, calculate the total quantity of fuel onboard, allow service teams to pre-select desired fuel quantity, and display fault codes. LMS' external refuel preselect panels are compact, lightweight, and rugged systems that can be adapted to a variety of platforms.

### ENCLOSURE

- Material: Nickel plated aluminum
- Dimensions: 5.06" x 5.37" x 3.36"
- Weight 1.20 pounds maximum
- Mil-STD-38999, shell size 13, 22 pins, environmentally sealed

### FEATURES

- Receives fuel quantities from two separate ARINC 429 buses
- Certified to FAA TSO C55A
- Software DO-178
- Environmental DO-160
- Capable of driving shutoff valves open and closed to enable automatic refueling

### FUNCTIONS

- Start/Off toggle switch
- Increment/decrement toggle switch used to preselect the desired total fuel quantity

### OPERATIONAL TEMP. RANGE

- -55°C to +75°C

### INPUT

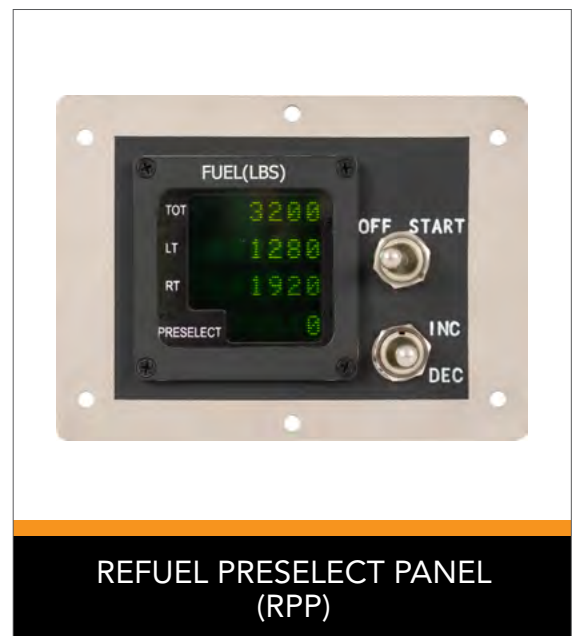
- Up to Five (5) Open/28VDC discrete inputs
- One (1) Open/GND discrete input
- ARINC 429 or customer specific requirement

### OUTPUTS

- Up to Two (2) Discrete Open/GND
- Displays several tank quantities and calculates the total quantity
- Displays preselected fuel quantity
- Displays fault codes

### POWER REQUIREMENTS

- 28VDC
- Current Draw: < 150mA
- Maximum Power Consumption: 4W



LIGHT

SAFE

ACCURATE

BEST VALUE



**LIQUID MEASUREMENT SYSTEMS, INC.**  
FUEL PROBES • CONDITIONERS • FUEL INDICATORS • REFUEL PANELS  
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DO-160G Section and Description		Category
1	Temperature & Altitude	B2
2	Temperature Variation	A
3	Humidity	B
4	Operational Shocks and Crash Safety	B
5	Vibration	S (Curve T)
6	Explosive Atmosphere	E
7	Waterproofness	R
8	Fluids Susceptibility	F (Spray)
9	Sand and Dust	D
10	Fungus Resistance	F
11	Salt Fog	S
12	Magnetic Effect	A
13	Power Input	Z(XX)
14	Voltage Spike	A
15	Audio Frequency Conducted Susceptibility	Z
16	Induced Signal Susceptibility	ZCX
17	Radio Frequency Susceptibility (Radiated and Conducted)	TT
18	Emission of Radio Frequency Energy	M
19	Lightning Induced Transient Susceptibility	A3J3L3
20	Lightning Direct Effects	XXXX
21	Icing	A
22	Electrostatic Discharge (ESD)	A
23	Fire, Flammability	C

