

OVERVIEW

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

Refuel Control 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' refuel control 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
- D38999, shell size 13, 22 pins, environmentally sealed

FEATURES

- Receives fuel quantities from two separate ARINC 429 buses
- FAA TSO C55a authorized
- Software developed to DO-178C
- Environmentally tested to DO-160G
- 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

OUTPUT

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

POWER REQUIREMENT

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



REFUEL CONTROL PANEL (RCP)

Precise Measurement. Optimized Performance.



DO-160G Section and Description**Category**

4	Temperature & Altitude	B2
5	Temperature Variation	A
6	Humidity	B
7	Operational Shocks and Crash Safety	B
8	Vibration	S (Curve T)
9	Explosive Atmosphere	E
10	Waterproofness	R
11	Fluids Susceptibility	F (Spray)
12	Sand and Dust	D
13	Fungus Resistance	F
14	Salt Fog	S
15	Magnetic Effect	Z
16	Power Input	ZXX
17	Voltage Spike	A
18	Audio Frequency Conducted Susceptibility	Z
19	Induced Signal Susceptibility	ZCX
20	Radio Frequency Susceptibility (Radiated and Conducted)	R
21	Emission of Radio Frequency Energy	M
22	Lightning Induced Transient Susceptibility	A3J3L3
23	Lightning Direct Effects	X
24	Icing	A
25	Electrostatic Discharge (ESD)	A
26	Fire, Flammability	C