

# DFMC

## Diagnostic Fuel Management Controller



The **Diagnostic Fuel Management Controller** is an advanced fuel quantity measurement & management controller with enhanced monitoring capabilities, specifically designed to **provide real-time indication to the pilot of trapped fuel or fuel-related imbalance**, as well as providing the maintenance personnel with full diagnostic and analysis capabilities regarding such occurrences.

The controller **is currently in service with the F-16 fleets of several Air Forces** and can be installed on any F-16 aircraft by a simple and quick retrofit.

### Technical Data

- Dimensions: (HxWxL) 3.45"x4.5"x5.4" (87.5x115x138)mm
- Weight: 4 lb (1.8 Kg)
- Qualifications: MIL-STD-810, MIL-STD-461, MIL-STD-704 and MIL-H-5606
- Power Consumption: 10 W
- MTBF exceeds 15,000 flight hours

### Benefits

- Improves flight safety by providing real-time in-flight warnings of:
  - Trapped fuel
  - Fuel leaks
  - Fuel transfer failures
  - Fuel imbalance
- Reduces pilot workload on fuel system in-flight monitoring
- Improves mission reliability - less flight aborts
- Reduces fuel system maintenance costs through accurate diagnostics
- Shorter AOG through simple fuel system troubleshooting process

## Main Features

- Measures and monitors all fuel tanks (both internal & external)
- Controls the fuel quantity indicators
- Provides fuel quantity data to the aircraft computer and to the fuel imbalance controller
- Detects and displays failures – trapped fuel, imbalance, sensors failures
- Records fuel system related events and commands
- Continuous in-flight fuel system behavior recording
  - Throughout each sortie
  - Individual tanks fuel quantity measurement and recording
  - Continuous calculation, recording and comparison of fuel transfer rate to the desired one
- Simple unit retrofit at the flight line level
- Compatible with all F-16 Blocks

## Additional RSL systems for F-16



**F-16 DESSC**  
Diagnostic Engine  
Starting System Controller



**ABC**  
Advanced Brake Controller

## COMPANY PROFILE

RSL Electronics USA Inc. designs, develops and manufactures state-of-the-art control and diagnostic solutions for defense and aerospace applications.

The wide range of systems offered by RSL includes airborne utilities and control systems as well as airborne Health and Usage Management Systems (HUMS). These are used in conjunction with turbo-jet, turbo-shaft & turbo-prop engines, fuel systems, and electrical power systems.

RSL maintains a strict quality assurance policy and is an approved supplier for the Israeli Air Force, the U.S. Army and Air Force, the Korean Air Force, the Japanese Air Force, Lockheed Martin, Israeli Aerospace Industries and many others.



**RSL Electronics USA Inc.**  
70 Round Hill Road Poughkeepsie, N.Y. 12603  
Tel: 845-462-6963 Fax: 845-462-2755  
info@rsl-electronics.com

