

# ADEN | FHD

FUEL HYDRAULIC DISPLAY

#Avionics



LED DOT-MATRIX DISPLAYS  
REDUNDANT DESIGN  
FIGHTER PLATFORMS QUALIFIED



**aselsan**

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## FUEL HYDRAULIC DISPLAY

With its compact, platform-configurable and user-friendly design; Fuel Hydraulic Display (ADEN FHD) meets the customer needs and platform requirements by critical fuel quantities, hydraulic pressure data and fuel balance/imbalance status.

Its redundant, reliable and rugged design helps pilots to feel safe on severe environmental conditions during the mission.

### General Specifications

- High Resolution LED Dot Matrix Displays
- Displayed data:
  - Individual 12 Tank Fuel Quantities
    - Total Fuel Quantity
    - Platform Fuel Balance Status (with critical value alert)
    - Hydraulic Pressures
    - Warning Status (Warning-leds & specialized indications)
- Single LRU Compact design
- Ideal Match for Mission Computer Applications
- DAY/NIGHT Configured and Adjustable Luminance
- Platform Specific Configuration Selection Capability

### Interfaces

- Power Inputs : 28VDC (2 Channel, Redundant)
- Sensor Data Input : 2 x RS485 (2 wire, Redundant)
- Control Interface : 2 x RS485 (2 wire, Redundant)
- Analog Interface : 0 - 5VAC, 400Hz Separate For Display And Light Panel Dimming
- Discrete Interface : OPEN/GROUND (O/G) Input/Output

### Physical Specifications

- Dimensions
  - Height (H) : 106 mm
  - Width (W) : 106 mm
  - Depth (D) : 100 mm
- Weight : < 1.1 kg

### Technical Specifications

- Display Type : Light Emitting Diode (LED)  
7x5 Pixel Dot-Matrix Displays
- Display Color : NVIS Yellow-Green
- Warning Led Color : NVIS RED
- PVE :  $\pm 45^\circ$  Horizontal /  $\pm 45^\circ$  Vertical
- Luminance (DAY) : 6.0 fL – 250.0 fL
- Luminance (NIGHT) : 0.5 fL – 12.0 fL
- NVIS Compatibility : MIL-STD-3009, Class B Type I-II

### Environmental Conditions

- Operating Temperature and Altitude: -40°C / +55°C, 31.000 ft
- Storage Temperature: -55°C / +85°C

### Qualifications

- MIL-STD-810F / DO-160E
- MIL-STD-704A
- MIL-STD-461E
- MIL-STD-147F
- Compliant to Fighter Jet Environmental Qualification Conditions

