

# FHD

## FUEL HYDRAULIC DISPLAY



LED DOT-MATRIX  
DISPLAYS

REDUNDANT  
DESIGN

FIGHTER PLATFORMS  
QUALIFIED



# FHD

## FUEL HYDRAULIC DISPLAY

With its compact, platform-configurable and user-friendly design; Fuel Hydraulic Display (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 includes:
  - 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
- Easy to Integrate
- Ideal Match for Mission Computer Applications
- DAY/NIGHT Configured and Adjustable Luminance
- Platform Specific Configuration Selection Capability
- Extended Built-In-Test Capability

### Technical Specifications

- Display Type : Light Emitting Diode (LED)  
7x5 Pixel Dot-Matrix Displays
- Display Color : NVIS Yellow-Green  
( $u' = 0.214, v' = 0.568$ )
- Warning Led Color : NVIS RED  
( $u' = 0.441, v' = 0.534$ )
- 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
- Indication capability of each display as
  - FLASHED (5 Hz) : Sensor Data Discrepancy
  - DASHED [ - - - ] : Sensor Data Invalidity
  - BLANKED : Sensor Not Present
  - ALL\_LIGHTED : Built-In-Test

### 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

### Qualifications

- Compliant to fighter jet environmental qualification conditions
- MIL-STD-810F / DO-160E
- MIL-STD-704A
- MIL-STD-461E
- MIL-STD-1472F

### Physical Specifications

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