

# EID

## ENGINE INSTRUMENT DISPLAY



LED DOT-MATRIX  
DISPLAYS

REDUNDANT  
DESIGN

FIGHTER PLATFORMS  
QUALIFIED



# EID

## ENGINE INSTRUMENT DISPLAY

With its compact, platform-configurable and user-friendly design; Engine Instrument Display (EID) meets the customer needs and platform requirements by displaying platform critical engine data.

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

### General Specifications

- High Resolution LED Dot Matrix Displays
- Displayed Data:
  - RPM (Rotational Speed, Round per Minute)
  - FTIT (Inlet Temperature)
  - OIL PSI (Oil Pressure)
  - FFLOW (Fuel Flow)
  - NZL (Nozzle Position)
  - Warning Status (Warning-LEDs & Specialized Indications)
- Compact LRU Design with Own Redundant Power Supply
- 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  
Max 180 Degree Dial and Pointers
- 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

- EID Display Unit Dimensions:
  - Height (H) : 145 mm
  - Width (W) : 44 mm
  - Depth (D) : 114 mm
- EID Display Unit Weight : < 0.6 kg
- EID Power Supply Dimensions:
  - Height (H) : 76 mm
  - Width (W) : 146 mm
  - Depth (D) : 127 mm
- EID Power Supply Weight : < 1.2 kg