

ADEN | EID

ENGINE INSTRUMENT DISPLAY

#Avionics



LED DOT-MATRIX DISPLAYS
REDUNDANT DESIGN
FIGHTER PLATFORMS QUALIFIED



aselsan

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ENGINE INSTRUMENT DISPLAY

With its compact, platform-configurable and user-friendly design; Engine Instrument Display (ADEN 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
- 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

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

Technical Specifications

- Display Type : Light Emitting Diode (LED) 7x5 Pixel Dot-Matrix Displays Max 180 Degree Dial and Pointers
- 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 / $+55^\circ\text{C}$, 31.000 ft
- Storage Temperature: -55°C / $+85^\circ\text{C}$

Qualifications

- MIL-STD-810F / DO-160E
- MIL-STD-704A
- MIL-STD-461E
- MIL-STD-1472
- Compliant to Fighter Jet Environmental Qualification Conditions

Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.

