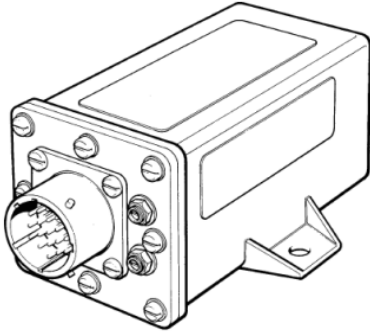


# FUEL GAUGING AMPLIFIER

HAWK AIRCRAFT



The FUEL GAUGING AMPLIFIER [FGA] measures quantity of fuel in capacitive fuel tank and communicates to analog / digital instrument for display.

Measurement is achieved by providing a drive signal to the fuel tank to determine the capacitance of the tank through current feedback, which is directly proportional to the quantity of fuel in the tanks.

This quantity of fuel is displayed on a moving coil meter & data is also available for further processing.



- Power supply : 28 Volts DC (16 to 29V DC)
- Power consumption : 5 Watts (Approx)
- Input impedance : 5 K Ohms (min.)
- Dimensions : 94mm(L), 50mm(W), 50mm(H)
- Mass : 300 grams ±10%
- Connector : MIL-DTL-26482 Series II Bayonet-Lock
- Aluminum to Spec : 6061 T651 or equivalent
- Finish : Black Anodizing, MIL-A-8625 Rev F



## STANDARDS

- MIL-HDBK-217F
- MIL-STD- 810 D/E
- MIL 461 E/F
- MIL 704D
- JSS 55555

Under  
Qualification

## SYSTEMS AIDS

9th Main Road, 1st Stage, Hennur Banaswadi Layout,  
Kalyan Nagar, BANGALORE - 560 043. (INDIA)

An ISO 9001:2008 Company Phone: +91-80-25451715/ 25451716 / 25452195

URL: [www.systemsaids.com](http://www.systemsaids.com)



# EXCITATION AND DEMODULATION UNIT

Jaguar Aircraft



Spoilers are deployed at controlled angles during flight to increase descent rate or control roll, and those that are fully deployed immediately on landing to greatly reduce lift ("lift dumpers") and increase drag.

The Excitation - Demodulation unit monitors the Aircraft Spoilers at Aircraft Wing Works using the Spoiler Transducer to indicate the angle of the spoiler.

It utilizes a function module and summing amplifier to form part of the spoiler-tail plane compensation system to achieve this.



- More than 50 numbers are supplied for Jaguar Aircraft, HAL from last 10 years.
- Minimum 20 years of production support.
- 110(L)\*109(W)\*31(H)
- Mass: 300 grams  $\pm$ 20gms.
- Al 6061 T651
- MIL-DTL Connector
- 28V DC (18 to 32V DC)
- Black Anodizing

## STANDARDS

- MIL-STD- 810 D/E
- MIL 461 D
- MIL 704
- JSS 55555

Under  
Manufacture &  
Support



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# LOW ALTITUDE AUDIO WARNING UNIT

Jaguar Aircraft



The Low Altitude Audio Warning System (LAAWS) is a compact, ruggedized unit which is meant for use in Aircrafts in order to provide a suitable warning under low altitude conditions of flights.

- The LAAWS is used in JAGUAR Aircraft.
- Compact rugged unit suitable for Air-borne applications
- Enclosure made of Aluminum for strength and Light Weight
- Terminations of I/Os on MIL grade 10 pin connector, suitable for direct mating with Aircraft connector
- Facility for storing required audio warning messages through external microphone
- direct interface to head phones with message duration of up to 60 seconds.



## SPEC:

Power supply : 28 Volts DC (18 to 32V DC)  
Power consumption : 5 Watts (Appx).  
Dimensions : 85mm(L), 45mm(W), 40mm(H)  
Mass : 280 grams  $\pm 10\%$ .  
Connector : MIL-DTL-Bayonet-Lock..  
Aluminum to Spec : 6061 T651  
Finish : Black Anodizing

## STANDARDS:

MIL-HDBK-217F, MIL-STD- 810 D/E,  
MIL 461 E/F, MIL 704D, JSS 55555.



Under Production  
and Support



## SYSTEMS AIDS

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