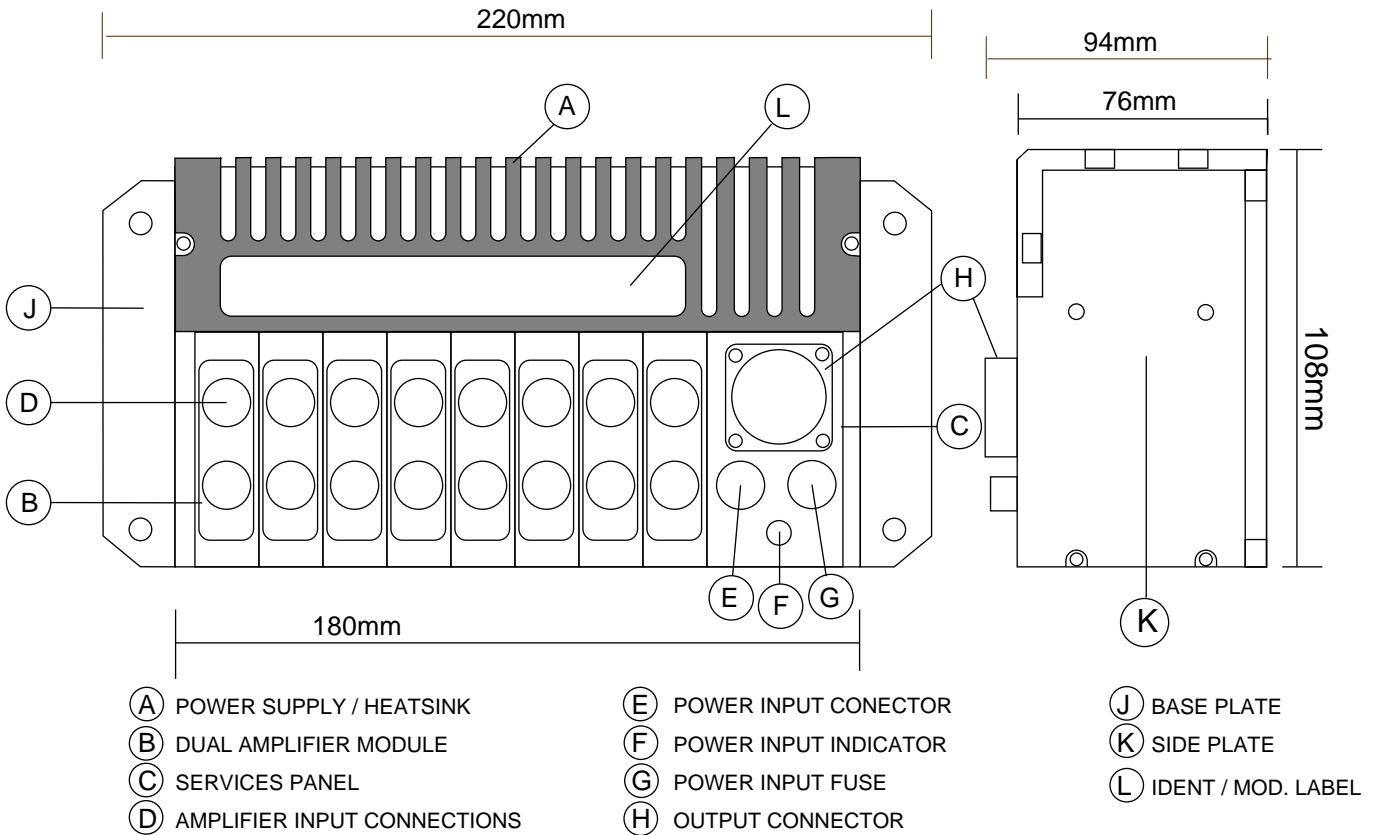


# FE1800MCU - SPECIFICATION

## General Assembly and Dimensions



## Mechanical

Mass	1.8kg
Material	Machined alloy extrusion (surplus material removed.)
Corrosion Protection	Alocromm 1200 surface treatment prior to painting.
Mounting	Mounting via base plate (custom base plates may be ordered)
Dimensions	As above.

## Environment

Temperature Range.	Operating Range -30°C to +85°C.
Altitude	Operation up to 50,000 feet.
Vibration	MIL-STD-810B. Fig. 514-2 Curve H.
Acceleration .	Acceleration 100m/s <sup>2</sup> in any axis.
Shock . (Normal Operation)	200 m/s <sup>2</sup> peak 1/2 Sinewave 11 ms. in any axis
Crash Safety	400m/s <sup>2</sup> peak 1/2 Sinewave 6 ms. in any axis
Non-Operating	1000m/s <sup>2</sup> peak 1/2 Sinewave 6 ms.

## Electrical

Voltage	28V DC Aircraft Supply (FE1800MCU). (PAN STD SP-P-90001 Cat B.) Operates within specification in both normal and abnormal conditions, or 11V to 30 V type (FE1803MCU).
Current	< 1A at maximum load.
Protection	Fused and protected against reverse voltages.
Bonding	Maximum resistance between any two metal parts of the case is 25 milliohms.

## Amplifier Power Supply

Volts	Volts +12 V, 0, -12 V (set to within 0.5%)
Current	Current + 200 mA -100 mA maximum.
Ripple .	Ripple <10 mV pk-pk up to 10 kHz.

## Transducer Excitation Supply

Volts	+5 V, 0, -5 V (10 V set to within +/-5 mV)
Current	30 mA per channel (480 mA max. total).
Ripple	<5 mV pk-pk up to 10 kHz.
Stability	Better than 30 ppm over the operating temperature range.