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Engine monitoring display (EMD)



The Meggitt Avionics' engine monitoring display (EMD) provides the perfect solution for small cockpit aircraft, by displaying critical engine data on a 3ATI format display. It provides engine information:

- fuel
- torque
- temperature

Optional additional platform specific information can include: flaps, battery load and replacement of several electro-mechanical cockpit standby instruments with a single 3ATI display unit.

All engine data is received either via ARINC 429 data or from discrete inputs. Also ideal for dual-seat applications both pilots can see exactly the same information, allowing co-operative assessment of aircraft performance.

Key features

- All solid state design
- High resolution full colour AMLCD display
- High brightness LED backlight
- Large useable screen area, fully anti-aliased
- Formats and brightness matched to primary displays
- 3ATI instrument panel clamp or flange bolt mount
- Extensive built in test (BIT)
- Passive cooling—no internal fans
- ARINC-429 data bus
- No internal sensors

Key benefits

- Numerous display options, including critical engine and aircraft data
- Excellent reliability
- High intensity, high efficiency LED backlight
- no ITAR components
- future-proofing for long service life
- service-proven robust attitude algorithms
- short length, low weight and low power
- Common hardware platform allows multi-function unit reducing logistic support

Operation

Application of power to the EMD initiates the 'built in' test process.

Various Bezel options available:

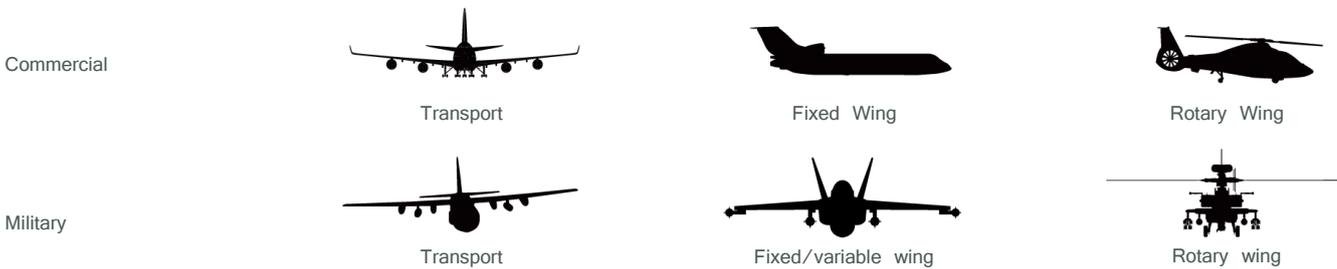
- Single button for test mode.
- Two button and rotary knob option allows units to be dual function and operate in another mode: for example as a secondary flight display.
- Four button option allows an alternative to a rotary knob.

Extra capability

Different button applications are programmable including a menu option for specific functions, such as control of display luminance, display parameters and style.

It provides advisory and caution warning of platform limits using coloured (amber and red) analogue displays and by changing the colour digital data.

Applications



Key customers

Pilatus, AIDC, Boeing Apache

Specification

Size:	3ATI x 6 inches (152mm) long	
Weight:	2.8 lbs (1.25 kg)	
Power:	28 VDC 16 W normal operating, 32 W cold start (150 foot lamberts display luminance) 20 W normal operating, 36 W cold start (300 foot lamberts display luminance)	
Aircraft system interface:	ARINC-429, MIL-STD-1553B	
Mounting:	Standard 3ATI instrument clamp or flange bolt mounting	
Display:	Active area	2.4 x 2.4 inches (61 x 61mm)
	Resolution	300 x 300 pixels
Environmental:	Operating temperature	-40° C - +70° C
	Storage temperature	-55° C - +95° C
Standards:	Environmental	RTCA/DO-160E
	Hardware	Hardware DO-254 Level B
	Software	Software RTCA/DO-178B Level B
	TSOs	TSOs C113

Specification subject to change. Images are for further info not a true representation.

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