

Flight displays › system

Magnetometer heading sensor (MHS)



The Meggitt Avionics' magnetometer heading sensor (MHS) is a standalone microprocessor-based unit that provides digital heading data output in ARINC 429 format (low speed standard, high speed optional).

Accurate digital output of heading replaces fluxgate compasses and enables easier interfacing with modern aircraft systems and displays. The MHS is housed in a non-magnetic case and is compatible with existing fluxgate sensor installations.

Heading is sensed from the earth's magnetic field. Stabilised heading is derived from the three-axis magnetometer together with a two-axis attitude data, e.g. the Meggitt Avionics' secondary flight display system.

Key features

- Digital output
- All solid-state design
- High resolution
- Extensive Built In Test (BIT)
- Reliability > 50,000 hours MTBF

Key benefits

- Low weight < 0.661 lbs (0.3 kg)
- Low power consumption (10 W including heater)
- Fully functional within 15 seconds of start up



Operation

Application of power to the system initiates the power up built in test (PBIT) which checks for:

- correct processor
- memory and heater function
- calibration/correction data.

The MHS internal heater ensures that the internal components reach operating temperatures within three minutes under low temperature conditions.

The MHS has to be aligned to the axis of the aircraft and then calibrated following installation.

Applications

Ideal for

Fixed Wing

Rotary Wing

Commercial



Military



Specification

Size:	4.4 inch diameter x 3.4 inch high (112 mm x 86 mm)	
Weight:	0.661 lbs (0.3 kg)	
Power:	28 VDC, 18 W max	
Standards:	Hardware	RTCA/DO-160D
	Software	RTCA/DO-178B Level B
	TSOs	C7d

Specification subject to change

Meggitt Avionics

Units 2-5 Titchfield Park,
20-26 Barnes Wallis Road,
Fareham, Hants, PO15 5TT, UK

Tel: +44 (0) 1489 483300
Fax: +44 (0) 1489 483340

www.meggitt-avionics.co.uk
www.meggitt.com

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