



Digital Attitude Indicator
MD23-342

Digital Attitude Indicator

Manufactured by Mid-Continent Instruments and Avionics

2-INCH ATTITUDE INDICATOR WITH ADVANCED
SOLID-STATE DESIGN, DELIVERS HIGHEST RELIABILITY

**Independent attitude without
the need for GPS, magnetometer
or airspeed.**

The MD23-342 is a solid-state instrument that displays attitude, slip, turn rate and heading information during normal or standby operation. The certified, digital attitude indicator provides independent attitude without the need for GPS, magnetometer or airspeed. Night Vision Imaging System (NVIS) compatible versions are available.

- Four primary functions: Attitude, slip, turn rate and heading
- Heading with primary avionics via external ARINC input
- Primary functions utilize modern solid-state MEMS gyro and accelerometer
- Easy installation with user-selectable panel tilt and roll-offset
- Fits standard 2-inch panel cutout
- Rechargeable, field-replaceable emergency battery (available)
- Lightweight – 0.4 lbs
- Simple user interface – Single, push-and-turn control knob
- Daylight readable LCD and smooth, high-resolution graphics
- Manual external lighting control or built-in photocell for automatic dimming
- Night Vision Imaging System (NVIS) compatible (available)
- TSO certified (Design Assurance Level A)
- Designed and built in Wichita, Kansas, USA
- Two-year limited warranty

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SPECIFICATIONS

Power Input	10–32 VDC 0.14A @ 28 VDC; 4 watts nominal	
Data Input	ARINC 429	Low or high speed; Label 320
Data Output	ARINC 429	Low or high speed; Labels 320, 324, 325
Operating Range	Attitude	360° angle, 500° per second for pitch and roll (maximum)
Lighting	5, 14, or 28 VDC external control or internal photocell for automatic dimming	
Battery	Rechargeable, field-replaceable emergency battery power supply (available) P/N 6430006-(1)	
	Technology	Nickel Metal Hydride (NiMH)
	Attributes	0.25A @ 24 VDC nominal (6 Wh capacity)
	Run time	60 minutes @ 0.25A
Weight	0.4 lbs (0.17 kg)	
Mounting	Rear panel mounted, (4) #6–32 screws, 2.25-inch round bezel	
Dimensions	2.43 x 2.43 x 1.0 inches (61.7 x 61.7 x 25.4 millimeters)	
Mating Connector	P/N 9019162-1	26-pin, D-Sub electrical connector (Quick Disconnect)
Certification	FAA TSO certified to C3e, C4c, C8e, C10c, C106, C113b, C201 RTCA DO-160G qualified RTCA DO-178C qualified, Design Assurance Level (DAL) A	
Rights	U.S. Patent 11,048,389	

